Cheker Hassan

Master Reference CV | Mobile-First Software Engineer | Android/Kotlin, iOS/Swift, Flutter, .NET/Angular

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Reference note: This is the complete master CV / evidence bank. Do not send it unchanged. Use it to create targeted 1-2 page CVs by selecting the relevant projects, stacks, and stories for each company.

FINAL OVERVIEW OF THE APPLICATION CV

- The current short CV is the cleaner company-facing version: 2 pages, universal, ATS-readable, and strongest for international internship / junior software engineering applications.
- It correctly leads with Software Engineer, CogniCare, WayFinder, Sahara, CyberTNAttack, UtopiaHire, Ste Habiba, Systeme de Pointage, team coordination, skills, and community affiliations.
- Keep the short CV as the default for applications; use this master CV only as a tailoring source when a role asks for specific evidence such as Java, .NET, mobile, AI, security, DevOps, IoT, or business operations.
- For UK/US style applications, remove age/date of birth. For AIESEC or eligibility-driven international programs, age may be included if useful.

PROFESSIONAL IDENTITY

Mobile-first, product-minded software engineer and 5th-year (final-year) Software Engineering student at ESPRIT with an 11-year self-driven engineering path that began in 2015 through laptop repair curiosity, game-development experiments, and a home culture of building/fixing. I build native Android experiences with Kotlin/Jetpack Compose, iOS clients with Swift/SwiftUI, and cross-platform Flutter products while working across .NET APIs, Angular applications, backend integration, databases, AI tooling, DevOps, SecOps, DBOps, FinOps-aware infrastructure planning, security readiness, business operations, RFID/IoT workflows, and technical coordination.

Core value: reducing delivery time and duplicated platform work by turning ambiguous ideas into shared interfaces, responsive mobile clients, .NET/Angular product surfaces, APIs, architecture, user stories, Jira delivery plans, working prototypes, documentation, QA/security review, product experiments, demos, and release-ready systems. The profile should read as student status plus unusually serious execution range, not as senior-title inflation.

Client motto: **"Your imagination is my limit."**
Personal principle: Built with honesty, intelligent work, and the ambition to leave every system better than I found it.
Private tailoring note: Keep political ambition out of company CVs. Use civic/service language only when it supports leadership, integrity, and impact.

PERSONAL DATA AND MOBILITY NOTES

- Name: Cheker Hassan. Base: Nabeul, Tunisia. ESPRIT campus context: Ariana Soghra, Tunis.
- Born January 5, 2002; 24 years old in 2026. Include age only where culturally/legally appropriate or program eligibility makes it useful.
- Available for summer 2027 international internships, AIESEC Global Talent-style opportunities, junior software engineering roles, and serious remote/international teams outside Tunisia.
- Languages: Arabic native; French fluent; English advanced/fluent for technical work; German learning.

ENGINEERING JOURNEY AND WORK TIMELINE

- 2015: began through laptop curiosity, fixing-things energy, and game development before university. The family influence matters: father was nicknamed MacGyver by friends because he fixed almost everything himself.
- 2021: earned the Baccalaureate from Lycée privé L'Idéale Nabeul, then completed GoMyCode Tunisia web development formation and shifted into JavaScript, modern web development, and product-oriented software.
- 2021-2022: studied one year of software-engineering PREPA / Integrated Preparatory Cycle at ITBS (IT Business School) before choosing a different long-term degree path.
- 2nd year of high school: joined IDEAL Nabeul and participated in the ROV competition; part of the Tunisia-winning team and helped prepare later Egypt/USA stages.
- 2022-present: chose ESPRIT over continuing at ITBS and continued the Software Engineering journey in Ariana Soghra, Tunis; currently in 5th year (final year) with a mobile/software engineering focus and expected graduation in 2027.
- Summer after 1st year: worked three months installing cameras and security systems, learning cabling, hardware setup, reliability, client-site discipline, and practical security-system deployment.
- Summer after 2nd year: worked in Medina El Arbi selling to tourists; several tourists asked for tour guidance, creating direct experience with client communication, persuasion, cross-cultural explanation, and trust.
- Summer after 3rd year: built Ste Habiba operational software across warehouse management, online selling, and mobile access.
- 2024-present: built/structured major products including CogniCare, WayFinder, Sahara, CyberTNAttack, UtopiaHire, AI/local media tooling, and business operations systems.
- Current direction: international software engineering internship / junior role outside Tunisia, while building a long-term product/entrepreneurial path.

EDUCATION AND TRAINING

ESPRIT - University of Engineering, Ariana Soghra, Tunis | 2022-present
Software Engineering, currently 5th year (final year); mobile/software engineering orientation; expected graduation 2027.

GOMYCODE Tunisia | 2021
Web Development / JavaScript program; transition from early game-development curiosity into modern web development and product surfaces.

ITBS - IT Business School, Nabeul | 2021-2022
One year of software-engineering PREPA / Integrated Preparatory Cycle before choosing ESPRIT for the continuing software-engineering degree path.

Lycée privé L'Idéale Nabeul
Private secondary education; Baccalaureate completed in 2021.

Collège privé L'Idéale Nabeul
Private middle-school education.

Self-directed engineering path | 2015-present
Game development roots, laptop repair curiosity, AI-assisted workflows, local-first tooling, and continuous exploration across web, mobile, backend, AI, DevOps, security, and hardware-adjacent systems.

TEAM COORDINATION, PRODUCT OWNERSHIP AND ENGINEERING MISSIONS

- Coordinate a 17-student engineering group by turning broad ideas into shared boundaries, Jira tasks, priorities, review checkpoints, solution breakdowns, ownership, and delivery rhythm.
- Created 300+ Jira tasks for CogniCare and used boards, scope breakdown, architecture notes, and release thinking to keep a multi-platform project coherent.
- Reduce delivery friction by identifying reusable platform decisions, clarifying client/backend contracts, and preventing the same product reasoning from being rebuilt independently for every surface.
- Can manage between contributors without claiming senior titles: requirements analysis, user stories, acceptance criteria, architecture notes, review checkpoints, demo preparation, documentation, and handoff material.
- Engineering missions to emphasize when relevant: optimization, improvement, refactoring, QA/security review, documentation, CI/CD pipelines, Jenkins, Docker, SonarQube, Prometheus/Grafana, monitoring, and Kubernetes deployment planning that shortens the path from code to supportable release.
- AI-assisted execution style: uses AI for research, scaffolding, debugging, documentation, testing, and product strategy, but validates outputs through review, integration, and working demos.
- Tool-building mindset: when the tool is missing, builds or coordinates tools around the workflow instead of waiting for perfect external SaaS.

ARCHITECTURE AND ENGINEERING JUDGMENT

- Define clear module, service, and data boundaries across mobile, web, backend, desktop, and AI surfaces so each system has seams for change and the next platform does not start from zero.
- Think in delivery leverage: share contracts, validation rules, domain decisions, and operational patterns where it reduces duplication without forcing unrelated products into one abstraction.
- Choose patterns and stacks against team capacity, deadline, product risk, operational cost, and expected change rather than treating one architecture as universally correct.
- Design for maintainable handoffs by turning decisions into architecture diagrams, API maps, review checkpoints, ownership notes, and documentation another engineer can extend without guesswork.
- Anticipate coupling, scaling, observability, security, support, and release pain early through validation, queues, health checks, quality gates, monitoring, and explicit trade-off records.
- Communicate architecture as a team decision: connect requirements, options, constraints, QA, delivery, and business value so the system can be reviewed and improved.

AI-NATIVE AND LOCAL-FIRST WORK ENVIRONMENT

- Uses prompt engineering, local AI workflows, Ollama/local models, MCP-style tool/context integrations, and AI-assisted software engineering workflows.
- Leverages a MacBook Pro M4 Pro with 128GB RAM and 2TB storage for local AI/model workflows, experimentation, self-hosted tooling, and custom systems.
- Best tailoring angle: include this only for AI tooling, local-first AI, media automation, devtool, or startup/product roles. Omit for conservative enterprise CVs unless directly useful.

OPEN-TO-WORK NARRATIVE AND AI-LEVERAGE POSITIONING (SEPTEMBER 2026)

Source: the September 2026 public open-to-work announcement, written in Cheker's own voice. Use these lines when tailoring summaries, cover letters, and interview introductions; they are positioning material, not project evidence.

- There has never been a better time to be a software engineer. The AI wave reads as leverage, not threat: software engineering has always been built on abstraction, and AI is another layer of leverage, except this one dramatically shortens the distance between "I don't know how to do this yet" and "I understand enough to start building it."

- Origin in his own words: the path started around 11 years ago, at about 13, discovering Unity 3D through YouTube and realizing that with a laptop, some tutorials, and enough patience, he could build his own games. The beginning was mostly copy-pasting code from tutorials, but running the game, playing something he had put together himself, changing things, breaking them, fixing them, and slowly understanding what was happening was enough to hook him. That curiosity never left; it just grew from games into web, mobile, backend systems, AI tooling, automation, DevOps, and security, then eventually into building complete products.
- What using AI properly means (and does not mean): not asking an AI to generate an application and calling yourself an engineer. It means using it to understand unfamiliar systems faster, explore technologies not yet mastered, challenge architecture decisions, debug faster, automate repetitive work, navigate large codebases, prototype ideas, and shorten the feedback loop between thinking and building.
- Judgment stays human: the important part is still knowing what should be built, why it should exist, whether the solution actually makes sense, and when the machine is wrong.
- The exploration loop behind the portfolio's range: I build it. I learn what I'm missing. I improve it. I ship it. Then I do it again. The portfolio contains projects across mobile, web, backend, AI, business systems, infrastructure, and security not because every field is mastered, but because asking whether he was already "qualified enough" to explore something stopped being a prerequisite for building it.
- Open-to-work scope: opportunities across product engineering, full-stack systems, mobile, AI, automation, DevOps, and security. More than a specific stack: teams where engineers are expected to understand the problem, question assumptions, learn quickly, and take ownership of what they build.
- Maturity framing: enough experience to contribute from day one, and still more than enough curiosity to know how much is left to learn.
- Anchor line: with AI, the feeling he had at 13 is back again. The distance between imagination and execution has never felt this small.

DETAILED PROJECT BANK

Use this section as the source for role-specific CV bullets. For every company, select only the projects that support the job description and reduce the rest.

CogniCare Ecosystem (CogniCare + mobile app + web dashboard)

Tunisia / ESPRIT | 2024 - Present | flagship social-impact product

Multi-platform care ecosystem that started as a personal CogniCare project after helping Farouk day-to-day with Chiheb Azzouz, then scaled at ESPRIT into a full team-built care product.

- Started from hands-on experience helping Farouk, an autistic child, with Chiheb Azzouz; transformed observed day-to-day difficulties into a product direction instead of treating the project as abstract coursework.
- Project surfaces/repositories to reuse when tailoring: CogniCare, cognicare-mobile, and Cognicare_Web_Dashboard.
- At ESPRIT, worked with a strong engineering team, Dr. Rim Hachicha, and Association Nour to turn the personal project into a full care ecosystem.
- Created 300+ Jira tasks, designed architecture, coordinated delivery, and built major parts of the Flutter mobile side, React web dashboard, NestJS/MongoDB integration, role-based workflows, realtime features, and AI recommendations.
- Maintained code quality through pull-request reviews, CodeRabbit, CodeQL, Jenkins pipelines, SonarQube quality gates, Docker, Prometheus/Grafana monitoring, Azure hosting, Play Store requirements, and deployment documentation.
- Best use in tailored CVs: healthtech, social-impact engineering, full-stack/mobile roles, product ownership, DevOps, requirements analysis, and team coordination.

WayFinder Travel Platform

ESPRIT / Remote | Oct 2025 - Jun 2026 | mobile + backend flagship

Cross-platform travel discovery and booking platform joining native Android, native iOS, and a NestJS/MongoDB backend into one product system.

- Built native Android Kotlin/Jetpack Compose and iOS SwiftUI clients against NestJS/MongoDB services, with auth, booking/payment flows, Redis/Bull queues, Swagger documentation, and provider integrations.
- Covered catalog, discovery, journeys, reviews, favorites, discussions, WebSocket chat, push notifications, health endpoints, AI travel recommendations, outfit/weather support, and media/video directions.
- Prepared technical validation materials for responsive product behavior and release quality: architecture diagram, API map, feature inventory, auth/security review, testing plan, and DevOps infrastructure notes.
- Built DevOps setup around Docker Compose profiles, Jenkins, SonarQube, Portainer, health checks, environment-driven configuration, and one-command setup scripts.
- Best use in tailored CVs: mobile engineering, backend/API roles, full-stack product roles, travel/product platforms, DevOps maturity, and international internship screening.

Sahara / MyOwnCursor

Local-first AI IDE | 2024 - Present | developer tooling flagship

Electron, React, TypeScript, Monaco, Express, SQLite, xterm, local AI, and MCP-based IDE for building a personal AI coding experience instead of depending only on external tools.

- Built a desktop IDE with Monaco editing, multi-file tabs, syntax support, terminal integration, semantic search, command palette, settings UI, codebase indexing, and status surfaces.
- Implemented AI chat and agent workflows around thought/plan blocks, prompt orchestration, user-approved terminal execution, local Ollama models, provider architecture, and MCP support.
- Structured code across Electron main process, React renderer, backend services, shared types, docs, tests, scripts, and release-hardening workspace.
- Uses personal local-AI environment and serious local computing capacity as part of an independent builder workflow.
- Best use in tailored CVs: AI tooling, developer tools, Electron/desktop roles, local-first AI, prompt engineering, workflow automation, and system architecture.

CyberTNAttack Security Readiness Platform

Nov 2025 - Present | 7 months | local-first security + learning platform

Protect + Learn + Community platform first built for personal local security checks, now evolving toward customers and real users through bounded, authorized checks and reports.

- Built Fastify API, Prisma/PostgreSQL persistence, Redis + BullMQ jobs, JWT auth, MinIO-compatible storage path, worker process, and Next.js frontend scaffold.
- Structured modules for Protect (projects, scans, findings, reports, alerts), Learn (tracks, lessons, progress, challenges, certificates), and Community (events, mentors, discussions, leaderboard).
- Focused scan worker on bounded authorized HTTP checks: transport, security headers, cookie flags, CORS behavior, verbose errors, exposed support files, basic stack signals, and report generation.
- Kept positioning defensive and public-safe: security readiness, learning, inspection, and authorized checks rather than unsafe offensive claims.
- Best use in tailored CVs: cybersecurity, QA/security review, backend platforms, async jobs, reports, Redis/BullMQ, and responsible security awareness.

UtopiaHire Career Tool

/Users/mac/UtopiaHire | 2025-2026 | AI career product

Resume reviewer/rewriter and career-support product built to help with job/client search workflows, AI feedback, admin surfaces, and quality checks.

- Built workspace with Vite/React/TypeScript frontend, Node.js/Express server, MongoDB/Mongoose persistence, shared TypeScript contracts, JWT auth, and optional Deno edge scripts.
- Implemented resume upload/parsing direction, OpenAI-powered feedback paths, admin roles and dashboard, dynamic plans/content, entitlement/quota enforcement, analytics events, and admin metrics.
- Created QA/security documentation around protected resume ownership, upload limits, missing AI keys, build/lint/test checks, and Playwright E2E coverage for user/admin paths.
- Purpose: built as a tool to help find jobs and clients while also proving career-tech, AI, SaaS, and admin-platform thinking.
- Best use in tailored CVs: AI/SaaS, career-tech, React/Node/MongoDB, admin dashboards, authentication, QA, and product ownership.

Ste Habiba Operations Suite (desktop platform historically CV-named MatlatPro / MatelasFlow / MatelasPro)

Tunisia | 2024 - 2025 | customer-used business software

One product for a mattress retailer delivered across three surfaces: a JavaFX/MySQL warehouse platform (historically CV-named MatlatPro / MatelasFlow / MatelasPro), a selling website (the BibaLuxe / SteHabiba digital side), and companion mobile access.

- Built JavaFX desktop app with MySQL/XAMPP setup, Maven structure, role-based login, BCrypt password hashing, French-language operator UI, and PDF reporting.
- Implemented CRUD for mattresses, quantities, prices, types, sizes, brands, users, partner store owners, and stock-affecting transactions; modeled sale, loan, transfer, and return workflows with daily/monthly PDF reports, statistics, and transaction history.
- Delivered the selling website and companion mobile access so inventory, commercial visibility, and daily operations stayed connected on one product model; built for handoff so the store runs it independently after the engagement.
- Historical CV wording for the desktop platform also describes inventory, workforce, sales dashboards, and AI forecasting for restock or discount decisions; verify the exact product label before using that claim in an application CV.
- Best use in tailored CVs: Java, desktop apps, operations software, inventory, reporting, e-commerce, full-stack/mobile, and small-business digitization.

Systeme de Pointage (RFID Attendance + Management)

Ariana Soghra, Tunis | 2022 - Present | hardware-adjacent operations system

Customer-used attendance and workforce-tracking system for 20 LaStoriaDiJoJo employees, joining RFID cards, web dashboarding, WhatsApp summaries, payroll visibility, QR, stock-management direction, and reports.

- Built after owner Marouen Neffati's proposal for LaStoriaDiJoJo in Ariana Soghra, connecting RC522/RFID cards, Python listener logic, Flask web dashboard, SQLite logs, employee records, and manager monitoring.
- Added WhatsApp daily summaries and month-end payroll summaries so the owner can receive attendance and payment information without manual checking.
- Now extending the restaurant/bar system with QR workflows and stock-management features.
- Useful as proof that the engineering range reaches beyond web UI into hardware-to-web/mobile/automation integration thinking.
- Best use in tailored CVs: IoT/RFID, embedded-adjacent systems, business operations, Flask/Python, reporting, and owner/manager workflows.

ASL Gesture Recognition / SignLik / IEEE SIGHT Accessibility Exploration

IEEE / local | 2024-2026 | accessibility + AI

Accessibility-oriented AI/social-impact direction around ASL gesture recognition, sign-language recognition, computer vision, mobile/backend surfaces, and humanitarian product thinking.

- Prototyped a real-time vision direction using Python, OpenCV, TensorFlow, dataset design, augmentation, and integration plans for web/mobile distribution.
- Use as a social-impact and accessibility signal: assistive technology, communication, inclusive design, and AI/computer-vision exploration.
- Connected to IEEE SIGHT-style humanitarian direction and the broader pattern of building software to help people, not only to ship demos.
- Keep honest in targeted CVs: present as exploration/product direction unless the company needs a deep accessibility example.
- Best use in tailored CVs: accessibility, AI, computer vision, social impact, IEEE, and inclusive product thinking.

Promptly + AI-Prompts

GitHub public | AI workflow / prompt engineering

Prompt/productivity repositories that document the AI-native side of the engineering workflow: reusable prompts, instruction systems, and practical automation thinking.

- Shows ability to use AI tools deliberately: prompt engineering, structured instructions, reusable workflows, and AI-assisted development patterns.
- Supports the honest positioning: I leverage AI tools to accelerate research, scaffolding, debugging, documentation, and testing, then validate outputs through review and integration.
- Best use in tailored CVs: AI integration, prompt engineering, productivity tools, documentation workflows, and AI-native engineering roles.

TuniCut-AI / Local-Arcads / AdCreation Hub / AI Media Runtimes

Local systems | 2025-2026 | local AI + advertising/media automation

Local-first AI/media product direction around video-ad generation, ad-generation control centers, runtime profiles, subscription logic, and creative automation.

- Includes local-first video-ad generation direction, AdCreation Hub control-center thinking, virtual influencer studio concepts, and integrations with LivePortrait, MuseTalk, and SadTalker-style runtimes.
- Shows market-aware AI product thinking for Tunisian businesses, creators, advertising workflows, media pipelines, and local hardware-backed experimentation.
- Do not oversell as production adoption; use as advanced local lab / product direction unless applying to AI media, automation, or startup/tooling roles.
- Best use in tailored CVs: local AI, media automation, Python/FastAPI/React direction, product systems, creator tools, and startup-style experimentation.

CheckAuto TN

Local product workspace | 2025-2026 | trust and verification platform

A trust-first vehicle-verification system shaped as a serious multi-surface product rather than a simple listing page.

- Structured user, inspector, listing-case, vehicle-snapshot, document-asset, inspection-booking, inspection-report, trust-report, billing, and audit-log domains around a traceable vehicle-verification workflow.
- Designed a NestJS API and Next.js web surface with Prisma/PostgreSQL persistence, Redis/BullMQ background work, role-aware access, password reset, request IDs, health checks, and report generation.
- Planned document/OCR ingestion, field normalization, mismatch detection, source provenance, market/context rules, inspector workflows, shareable trust reports, paid credits, and billing ledger behavior.
- Added release-hardening, CI, security review, admin queue operations, email/notification paths, and browser-based validation evidence; keep marketplace scale or traction claims out unless directly measured.
- Best use in tailored CVs: systems engineering, trust/security products, OCR/document workflows, async jobs, billing foundations, and production-readiness thinking.

DevisPilot

Local product workspace | 2025-2026 | multi-tenant SMB SaaS

A WhatsApp-first commercial SaaS for Tunisian artisans and home-service businesses, connecting lead capture to structured sales follow-up.

- Built a Next.js App Router product with Clerk authentication, Prisma/PostgreSQL data, tenant onboarding, organization membership, platform-admin controls, seeded demo data, and tenant-scoped routes.
- Designed public conversion pages, service/business profiles, lead capture, mini-CRM follow-up, lead detail actions, onboarding, settings, and platform administration around a local-market workflow.
- Added integration boundaries for WhatsApp Cloud API, email, AI assistance, Konnect/ClicToPay/Flouci-style payment adapters, mock mode, and explicit launch-readiness documentation instead of hiding incomplete integrations.
- Documented architecture, demo flow, mocked integration limits, sales-readiness audit, launch QA, and known pre-client constraints; this is product architecture and implementation evidence, not claimed commercial traction.
- Best use in tailored CVs: SaaS architecture, multi-tenancy, product thinking, Next.js, Prisma, authentication, local-market delivery, and business workflow digitization.

DentoFlow / dentistmanagment

Local product workspace | 2025-2026 | healthcare operations SaaS

A multi-tenant dental-practice management SaaS designed for solo and small clinics with a clear operational and subscription model.

- Modeled clinic operations for patients, appointments, treatments, inventory, billing, notifications, reports, and workspace-scoped records across 1-10 chair practices.
- Implemented or structured owner, staff, legacy admin, patient, and platform-admin roles, self-service workspace onboarding, staff invitation tokens, plan catalogs, subscriptions, entitlements, and platform-admin APIs/UI.
- Planned AI/chatbot support through explicit implementation guides and prompt contracts while keeping clinical and commercial boundaries visible; avoid claiming autonomous medical decisions.
- Maintained production-audit, deployment, chatbot, phase-plan, and QA documents that make the system easier to review and hand off.
- Best use in tailored CVs: multi-tenant SaaS, healthcare operations, RBAC, subscriptions, Prisma/SQLite/Express, AI integration boundaries, and documentation.

TrustKit

Local product workspace | SaaS proof | testimonial operations

A monetizable testimonial-collection SaaS that turns customer submissions into approved social proof and embeddable website widgets.

- Designed user accounts and password reset, branded collection forms, public no-signup submission pages, approval/rejection/star/delete moderation, and a Wall of Love builder with masonry/grid/list layouts.
- Built an embeddable JavaScript widget, public wall URL, CORS-enabled JSON API, email notifications, Stripe checkout/billing portal/webhooks, trial gating, and Pro entitlements.
- Used Flask, SQLAlchemy, Flask-Login, Stripe, Gunicorn, and deployment paths for Fly.io, Render, Railway, Heroku, and Docker.
- Shows commercial product judgment: clear buyer, simple value proposition, recurring revenue logic, retention through embedded widgets, and a defined path from form submission to public proof.
- Best use in tailored CVs: SaaS product design, Flask, billing, embeddable integrations, moderation workflows, and product-market framing.

PricePilot

Local product workspace | monetizable SaaS | quote and lead operations

A quote-estimation and lead-qualification SaaS for agencies and service businesses, designed with subscription tiers and conversion analytics.

- Separated a React/Vite frontend from a NestJS backend with Prisma/PostgreSQL persistence, JWT registration/login, business profiles, configurable quote rules, leads, metrics, and public widget endpoints.
- Designed Starter, Pro, and Agency tiers around business profiles, quote estimation, lead capture, exports, branding, white-label workspaces, and client-facing reuse.
- Included Stripe checkout and webhook boundaries, API health, deployment/runbook documentation, database migrations, and a public estimate/lead flow.
- Shows how product packaging, backend entities, public widgets, billing, and operational dashboards fit together beyond a basic CRUD application.
- Best use in tailored CVs: React/NestJS, PostgreSQL, Prisma, JWT, subscription logic, quote engines, APIs, and commercial systems.

SecSystem

Local architecture workspace | Angular + .NET + ESP | foundation stage

A farm-security system designed around distributed doors, edge sensors, a mobile-installable PWA, and a backend event/alert model.

- Defined an Angular PWA for farm owners, a .NET REST API, ESP firmware for door sensors, and a data model covering farms, users, devices, doors, events, alerts, and future cameras.
- Documented the edge-to-cloud boundary, HTTPS REST as the first transport, MQTT as a candidate path, physically separated doors, audit logs, sensor placement, and real field constraints.
- Kept the repository honest as a foundation-stage architecture rather than presenting a draft as a completed deployment; implementation milestones separate the PWA shell, API, ESP prototype, field validation, and later alert/camera work.
- Best use in tailored CVs: mobile-first PWA, Angular, .NET, IoT/edge systems, security design, hardware integration, and architecture documentation.

UberMoto

Public repository + local workspaces | mobility/delivery platform

A motorcycle-delivery marketplace that combines customer, driver, and admin flows with realtime tracking and a production-readiness program.

- Structured a Flutter frontend and NestJS backend around delivery creation, driver acceptance, availability, status changes, customer history, driver portal, catalog/admin direction, and notification flows.
- Integrated or planned Google Maps geolocation, address-to-coordinate conversion, fuel/distance cost calculation, Socket.IO room-based realtime communication, JWT/RBAC, DTO validation, and Sentry monitoring.
- Documented 15+ backend modules and a 148-test baseline, while also identifying honest remaining work: rate limiting, password hardening, HTTPS/CORS, payment completion, driver document verification, backups, monitoring, and load testing.
- Best use in tailored CVs: Flutter/mobile-first engineering, NestJS APIs, realtime state, geolocation, logistics, security hardening, test discipline, and production-readiness analysis.

FlashForge / replicate

Local product workspace | 2025-2026 | local-first media pipeline

A macOS/Apple-Silicon-friendly YouTube-reference-to-original-short-video pipeline with API, web UI, worker processing, and explicit compliance stages.

- Structured ingestion, style fingerprinting, Ollama script/storyboard generation, compliance checks, stock/procedural visuals, TTS, rendering, and MP4 export as a reproducible pipeline.
- Separated Pydantic schemas, FastAPI endpoints, SQLite job state, a persistent worker, React web surface, job polling, artifact ZIP export, health/readiness, and runtime configuration.
- Added async and synchronous execution paths, progress reporting, caption/render plans, music tagging, local model support, and a clear dependency boundary around FFmpeg, Ollama, Whisper, and TTS.
- Best use in tailored CVs: Python/FastAPI, queues/workers, local AI, media automation, API/web architecture, and observable long-running jobs.

Nexus UGC

Public repository | local AI media automation

An AI-powered UGC production system that turns long-form video into short-form, captioned, publish-ready clips.

- Defined a FastAPI v1 API, a vanilla-JavaScript web surface, a worker thread, JWT authentication, accounts/groups, job state, and API documentation.
- Combined Whisper.cpp transcription, local Qwen/Ollama analysis, FFmpeg cutting/captioning, pipeline orchestration, and export-ready artifacts for TikTok, Instagram, and YouTube workflows.
- Shows local-first operational thinking: health/readiness endpoints, persistent job data, queue counts, run modes, explicit prerequisites, and a reproducible local launch command.
- Best use in tailored CVs: Python, FastAPI, local models, media pipelines, worker architecture, authentication, and automation products.

Context Assistant / AI-interview

Local product workspace | Tauri 2 desktop app | release hardening

A contextual desktop assistant project with separate runnable app, build/product documentation, QA history, improvement logs, and release-readiness evidence.

- Organized the workspace into a runnable Tauri 2 application, product/architecture build workspace, release-hardening audits, earlier QA matrices, improvement logs, runtime validation, and agent handoff conventions.
- Used the documentation system itself as engineering evidence: final conclusions, bug logs, manual QA checklists, deployment notes, and continuation workspaces keep product decisions traceable.
- Present as an active product and delivery system rather than claiming a fully mature commercial release unless the release evidence says so.
- Best use in tailored CVs: desktop engineering, product documentation, QA/release hardening, context-aware workflows, and maintainable handoffs.

AirportManagement

Academic | 12 weeks | C# / .NET / Angular exposure

Airport operations management system used as the strongest .NET/C#/Angular support signal from academic work.

- Modeled domain-specific management workflows around airport-style operations, structured entities, CRUD, databases, and admin-style screens.
- Important for roles asking about .NET, C#, Angular, databases, and enterprise/operations thinking.
- Best use in tailored CVs: .NET/C#, Angular exposure, databases, CRUD, academic management systems, and enterprise-style modeling.

FULL PROJECT CATALOGUE FOR TAILORING

Maturity labels are intentional. A master CV can contain everything, but a targeted company CV should feature only the strongest and most relevant evidence.

Flagship and Strong Product Systems

CogniCare - Care platform | *Directed product*
Care ecosystem that grew from Farouk/Chiheb day-to-day support into ESPRIT team delivery with Dr. Rim Hachicha, Association Nour, mobile/web surfaces, Jira delivery, QA, DevOps, Azure, and Play Store release work. **Stack / signal:** Flutter, React, NestJS, MongoDB, Azure, Jenkins, SonarQube, CodeRabbit, CodeQL

WayFinder Mobile - Navigation / travel product | *Mobile/backend proof*
Navigation/travel ecosystem with Android, iOS, backend surfaces, route-style product direction, booking/payment flows, and DevOps infrastructure. **Stack / signal:** Android, Kotlin, Jetpack Compose, SwiftUI, NestJS, MongoDB, Redis

Sahara - AI developer tool | *Technical-depth proof*
Electron IDE direction with Monaco editing, local AI workflows, terminal bridge thinking, semantic search, MCP support, and provider architecture. **Stack / signal:** Electron, React, TypeScript, Monaco, SQLite, Express, Ollama

CyberTNAttack - Security practice | *Local lab evolving to users*
Security-readiness web project first built for personal local checks, now evolving toward customer/real-user use with bounded checks, reports, and defensive learning. **Stack / signal:** Next.js, Fastify, Prisma, PostgreSQL, Redis, BullMQ

UtopiaHire - Career product | *Support proof*
Career product with resume review, rewriting workflows, job-search support, admin dashboards, analytics, and QA/security documentation. **Stack / signal:** React, TypeScript, Node.js, Express, MongoDB

Ste Habiba Operations Suite (desktop: MatlatPro / MatelasFlow / MatelasPro) - Business operations | *Customer-used proof / public desktop code*
One product for a mattress retailer across six months: JavaFX desktop warehouse platform (inventory, transactions, users, store owners, reports; a historically described AI forecasting direction), selling website, and mobile access. **Stack / signal:** Java, JavaFX, MySQL, Maven, BCrypt, iText PDF; web app; mobile app

Systeme de Pointage - Attendance system | *Support proof*
Customer-used RFID attendance for 20 LaStoriaDiJoJo employees with Flask web dashboard, WhatsApp daily/monthly payroll summaries, QR direction, and stock-management extensions. **Stack / signal:** Arduino, ESP, RC522/RFID, Python, Flask, SQLite, WhatsApp

BibaLuxe - Commerce surface | *Public code*
Boutique/luxury commerce-style TypeScript project showing brand surface, product browsing, and web app composition. **Stack / signal:** TypeScript, commerce UX, frontend

ASL Gesture Recognition / SignLik - Accessibility ML | *Social-impact system*
Accessibility-oriented ecosystem connecting gesture recognition, computer vision, mobile/backend surfaces, and humanitarian product direction. **Stack / signal:** Python, OpenCV, TensorFlow, ML, mobile, backend, accessibility

Promptly - Prompt tool | *Public code*
Prompt/productivity project reflecting reusable prompt workflows, AI interaction structure, and developer utility thinking. **Stack / signal:** Python, prompts, AI workflow

TuniCut-AI - AI product | *Large AI direction*
Tunisia-oriented AI product direction around automation, creator value, and modern AI workflows. **Stack / signal:** AI product, automation, startup/product architecture

AI, Automation, Media, and Local-First Product Labs

Local-Arcads - Ad generation platform | *Active build*
Local-first video-ad generation platform shaped around runtime profiles, media pipelines, subscription logic, and operator controls. **Stack / signal:** Python, React, FastAPI, media pipeline, local runtimes

FlashForge - Short-video pipeline | *Active build*
Short-form tech-video production workflow for turning references, scripts, assets, and automation into repeatable publishing output. **Stack / signal:** Python, FFmpeg, automation, content ops

Context Assistant - Workflow assistant | *Active hardening*
Context-aware assistant focused on workflow memory, desktop/productivity surfaces, structured context, and release hardening. **Stack / signal:** TypeScript, AI workflow, desktop UX, context systems

AdCreation Hub - Media control center | *Local proof*
Control-center hub for organizing ad-generation modules, runtime choices, project assets, and operator flow. **Stack / signal:** Python, React, media ops, local AI

Virtual Influencer Studio - AI media studio | *Local proof*
Creative media studio concept for assembling character-driven content workflows and local generation pipelines. **Stack / signal:** AI media, Python, workflow design

LivePortrait Runtime - AI media runtime | *Runtime integration*
Local AI media runtime integration used inside generated-video and creative automation workflows. **Stack / signal:** Python, AI runtime, video generation

MuseTalk Runtime - AI media runtime | *Runtime integration*
Lip-sync and media-generation runtime integration explored inside advertising and virtual-content toolchains. **Stack / signal:** Python, AI runtime, lip sync

SadTalker Runtime - AI media runtime | *Runtime integration*
Talking-avatar runtime integration used to study local generation constraints, packaging, and media workflows. **Stack / signal:** Python, AI runtime, avatar video

License Server - Subscription backend | *Local proof*
Licensing backend concept for product access, subscription checks, activation logic, and commercial software control. **Stack / signal:** Backend, licensing, subscription logic

Nexus - Automation / AI system | *Public code*
Python automation/AI workspace exploring agents, workflow systems, and developer-productivity direction. **Stack / signal:** Python, automation, AI workflows

Nexus UGC - UGC workflow | *Local proof*
UGC/content-generation workflow connected to automation, campaign thinking, and repeatable media production. **Stack / signal:** Automation, UGC, content pipeline

Graphify - Knowledge graph tool | *Public fork / local work*
Knowledge-graph tooling for codebase understanding, structured context, and AI-assisted development memory. **Stack / signal:** TypeScript, knowledge graph, AI coding

Mobile MCP - Developer tooling | *Local proof*
Mobile-focused MCP/tooling workspace for controllable developer environments and automation around app workflows. **Stack / signal:** MCP, mobile tooling, automation

AI-Prompts - Prompt library | *Public code*
Prompt and AI-resource library used as learning-public artifact and reusable base for AI-assisted engineering workflows. **Stack / signal:** Prompt design, AI workflow, knowledge base

tndvertise-ai - AI marketing/adtech | *Strong support*
AI advertising and marketing workflow direction for Tunisian businesses and commercial content support. **Stack / signal:** AI, marketing, adtech, automation

trackhub-AI / TrackHub - Tracking / platform API | *Local proof*
Tracking/platform workspace with API direction and operational-system thinking around events, entities, dashboards, and visibility. **Stack / signal:** API, platform logic, operations

pubreelo - Creator/media workflow | *Concept*
Publishing, reels, content creation, and social media automation direction for creators or marketers. **Stack / signal:** Creator tool, media, social content, automation

sonofcursor / sonofcotester - Developer tooling | *Support proof*
AI-assisted coding/testing helper direction and QA-oriented automation surfaces. **Stack / signal:** TypeScript, testing, developer tooling

Business, Web, Commerce, and Client-Oriented Systems

CheckAuto TN - Verification platform | *Demo / staging-ready*
Trust-first used-car verification system with buyer flows, reports, admin operations, async jobs, billing foundations, and release-hardening work. **Stack / signal:** Next.js, NestJS, Prisma, PostgreSQL, Redis

DevisPilot - Commercial SaaS | *Sales-ready direction*
WhatsApp-first SaaS for Tunisian service businesses with public lead capture, CRM-lite follow-up, tenants, onboarding, and sales-readiness docs. **Stack / signal:** Next.js, Clerk, Prisma, PostgreSQL, WhatsApp flow

DentoFlow / dentistmanagment - Healthcare operations | *Support proof*
Dental operations app showing patient, staff, appointment, admin, and role-aware workflow structure for a clinic-style environment. **Stack / signal:** React, TypeScript, Express, Prisma, SQLite

TrustKit - Trust tooling | *Product proof*
Trust and verification toolkit concept for making product promises, evidence, audits, and walkthrough surfaces easier to inspect. **Stack / signal:** TypeScript, product trust, evidence flows

PricePilot - Pricing tool | *Local proof*
Pricing and decision-support product surface with backend/frontend split for clearer commercial and operational choices. **Stack / signal:** Frontend, backend, pricing logic

Soukly - Marketplace | *Strong support*
Marketplace-oriented product concept designed around local digital commerce, users, sellers, and transaction thinking. **Stack / signal:** Marketplace, e-commerce, local platform

UberMoto - Mobility app | *Public code*
Ride/mobility product surface with mobile-first thinking, rider/operator flow potential, and backend/frontend structure. **Stack / signal:** Dart, Flutter, backend, mobile UX

Modern Majlis App - Client/product app | *Local proof*
Modern product/app surface for a themed business idea, adapting UI and workflows to a specific domain. **Stack / signal:** Web app, product UI, client workflow

OpenWork Dev - Work platform | *Local proof*
Work-platform style local project showing marketplace/collaboration thinking and product surface exploration. **Stack / signal:** Web app, marketplace logic, collaboration

Noor WebApp - Client web app | *Public shell / local work*
Client-oriented web app workspace with separate front/back surfaces and delivery structure for a named task. **Stack / signal:** Frontend, backend, web app

Coffee Website - Small business site | *Local proof*
Small-business website surface for brand presentation, service/product display, and fast delivery polish. **Stack / signal:** Frontend, brand site, responsive UI

Tradisio - Commerce / culture app | *Local proof*
Next.js product surface blending commerce-style thinking with a cultural/traditional brand direction. **Stack / signal:** Next.js, commerce UX, product surface

PulseWeb - Web dashboard | *Public code*
Dashboard/web product surface useful as proof of fast interface assembly, page composition, and project iteration. **Stack / signal:** Web app, dashboard, frontend

OTECH - Tech web surface | *Public code*
TypeScript web project showing fast product surface construction, interface assembly, and technical theme execution. **Stack / signal:** TypeScript, web app, frontend

LaStoriaDiJoJo - Interactive story / business idea | *Public code*
Creative TypeScript web project connected to business storytelling, visual product surface, and playful frontend execution. **Stack / signal:** TypeScript, frontend, interactive UI

LaStoriaDiJoJo2 - Business iteration | *Support project*
Second iteration/refinement of the LaStoriaDiJoJo direction, useful as proof of iteration and business evolution. **Stack / signal:** Frontend, business-facing UI, iteration

Portfolio Main / chekerh - Personal brand system | *Profile proof*
Portfolio and GitHub profile work showing identity, skills, featured projects, visibility, and professional presentation strategy. **Stack / signal:** Frontend, portfolio, brand system, Markdown

Academic, Learning, Prototype, and Sandbox Archive

PiDevJava / pidev3a45 - Structured academic/team project | *Strong support*
Java/OOP university/team project signal for formal engineering discipline, collaborative workflow, and multi-module project development. **Stack / signal:** Java, OOP, academic teamwork

AirportManagement - Operations app | *Public code*
C# management system proof focused on structured entities, operational flows, databases, and admin-style software thinking. **Stack / signal:** C#, .NET, Angular exposure, operations

CSChallenge AI R.R. Model - AI challenge model | *Public code*
Challenge/modeling project showing applied AI experimentation, technical learning, and work under constraints. **Stack / signal:** TypeScript, AI model, challenge project

WorkshopMobile - Mobile app | *Public code*
Kotlin mobile project showing Android development practice, app-structure discipline, and mobile workflow thinking. **Stack / signal:** Kotlin, Android, mobile UX

way-finder - Navigation prototype | *Public code*
Earlier or alternate WayFinder iteration exploring wayfinding, interface flow, and route-oriented user experience. **Stack / signal:** TypeScript, web app, navigation UX

WayFinder - Navigation prototype | *Public code*
Alternate WayFinder code surface showing iteration around route logic, product naming, and TypeScript app structure. **Stack / signal:** TypeScript, web app, prototype

cheker - Personal/foundational repo | *Optional*
Early personal workspace or foundational project used for experimenting, learning, and organizing ideas. **Stack / signal:** Personal, experimental, foundational

game-jam - Game prototype | *Public code*
Game-jam style prototype from 2025, proof of rapid creative delivery under constrained scope. **Stack / signal:** Game prototype, rapid build, creative coding

SandyBubbles - Creative prototype | *Public code*
Small creative prototype kept as proof of experimentation, visual play, and lightweight project shipping. **Stack / signal:** Prototype, frontend, creative coding

To-Do-WebApp - Fundamentals app | *Do not feature prominently*
Classic task-management practice project; useful internally as CRUD foundation but too common for homepage positioning. **Stack / signal:** Web app, CRUD, productivity fundamentals

repo-test- - Workflow sandbox | *Do not feature*
Setup/Git/GitHub workflow sandbox; keep out of public portfolio and application CVs. **Stack / signal:** Test, sandbox, git workflow

VERIFIED GITHUB REPOSITORY INVENTORY

GitHub API audit completed 4 August 2026 using the authenticated chekerh account: 50 owned repositories were returned, including public and private repositories. Visibility, repository names, and language telemetry are verified. Private entries are intentionally described conservatively until source-content read permission is available; names alone are not treated as proof of shipped features.

Agent-Reach - GitHub-owned repository | *Public*
An adapted open-source AI-agent internet-access CLI rather than an original platform claim. It gives agents one command surface for sources such as Twitter, Reddit, YouTube, GitHub, Bilibili, and Xiaohongshu, making it useful evidence of API integration, command-line tooling, source attribution, and practical agent workflow design. **Stack / signal:** Python, Shell, HTML

AI-Prompts - GitHub-owned repository | *Public*
A curated prompt-engineering and AI-agent research archive organized around system prompts, tool instructions, model behavior, and reusable workflow patterns. It demonstrates the less visible product work behind AI systems: comparing approaches, documenting constraints, and turning experiments into repeatable engineering inputs. **Stack / signal:** Prompt resources

AirportManagement - GitHub-owned repository | *Private*
An academic airport-operations management system modeled around structured entities, database-backed CRUD, administrative workflows, and role-oriented screens. It is the strongest repository-level evidence for C#/.NET, Angular exposure, relational data modeling, and translating operational requirements into an enterprise-style application; private source-level detail remains unavailable. **Stack / signal:** C#

BibaLuxe - GitHub-owned repository | *Public*
A multilingual premium-mattress and furniture commerce experience spanning English, French, and Arabic/RTL presentation. The product surface covers catalog discovery, cart and checkout, order tracking, admin analytics, responsive Tailwind UI, 3D product visualization, and AI customer-support chat—evidence of commerce UX, internationalization, and business workflow integration rather than a static marketing page. **Stack / signal:** TypeScript, JavaScript, CSS

chekerh - GitHub-owned repository | *Public*
A personal GitHub-profile automation workspace built around Python scripts, generated metrics, contribution/eagle visuals, and asset-driven profile presentation. It shows how I use small automation tools and static outputs to turn account data into a maintained public engineering identity, while keeping the project separate from production product claims. **Stack / signal:** Python

CogniCare - GitHub-owned repository | *Public*
The public delivery and workflow surface for the wider CogniCare ecosystem. Its evidence is operational rather than only visual: linting, type-checking, builds, deployment workflows, issue templates, and pull-request conventions that help coordinate mobile, dashboard, backend, privacy, and release work across a team-built care product. **Stack / signal:** TypeScript, Python, JavaScript

cognicare-mobile - GitHub-owned repository | *Private*
The mobile client for the CogniCare care ecosystem, implemented around Flutter delivery with NestJS/MongoDB integration. The documented product direction includes family and specialist workflows, role-aware experiences, realtime paths, AI recommendations, healthcare privacy practices, and Play Store-oriented release work; GitHub source-content access is still pending, so claims remain tied to project documentation. **Stack / signal:** Dart, TypeScript, Swift, Kotlin

Cognicare_Web_Dashboard - GitHub-owned repository | *Public*
A React/Vite healthcare operations dashboard with distinct Admin, Specialist, Organization Leader, and Family portals. It brings together child-progress

tracking, treatment plans, AI recommendations, reports, invitations, fraud-detection thinking, and English/French/Arabic internationalization—an evidence-rich example of role-aware dashboards, domain workflows, and product-level accessibility concerns. **Stack / signal:** JavaScript, CSS, HTML

CSChallenge-AI-R.R.Model - GitHub-owned repository | *Public*
The public UtopiaHire resume-reviewer and rewriter workspace identified by its README. It combines a React/TypeScript frontend with server and migration layers, OpenAI/Kaggle-oriented integrations, and AI-assisted career workflows, making the repository relevant to structured feedback systems, document intelligence, and productizing an AI review experience. **Stack / signal:** TypeScript, JavaScript, CSS

CyberTunisia - GitHub-owned repository | *Private*
A security-readiness product direction organized around Protect, Learn, and Community rather than a single scanner screen. Local evidence covers bounded authorized HTTP checks, findings and reports, Redis/BullMQ workers, JWT/RBAC, defensive security education, and supporting community flows; present it as responsible security engineering and product architecture, not as an unrestricted penetration-testing service. **Stack / signal:** TypeScript, HTML, CSS

dentistmanagment - GitHub-owned repository | *Private*
DentoFlow is a multi-tenant dental-practice SaaS for solo and small clinics. Its operational model covers patients, appointments, treatments, inventory, billing, notifications, reports, workspace-scoped data, owner/staff/patient/platform-admin roles, onboarding, subscription entitlements, and a deliberately bounded AI chatbot direction—showing SaaS tenancy, permissions, clinic workflows, and monetization design together. **Stack / signal:** TypeScript, Python, JavaScript

esprit-health - GitHub-owned repository | *Private*
A separate private ESPRIT health-oriented academic/product workspace retained as its own project record so it is not incorrectly merged into CogniCare. The current authenticated GitHub token exposes no readable README, contents, or commit history for this repository; therefore this entry records the project identity without inventing modules, outcomes, or deployment claims. **Stack / signal:** Not reported

fama-dhaw - GitHub-owned repository | *Private*
A Tunisia-focused civic-reporting PWA direction built around Arabic-first community outage reporting and live electricity data, with map visualization and French/English switching. The documented expansion path includes optional Supabase-backed water, regional-coverage, and feedback data; it is best presented as a civic product prototype with localization and data-model thinking, pending repository-source review. **Stack / signal:** JavaScript, CSS, HTML

game-jam - GitHub-owned repository | *Public*
A public Global Game Jam project record for Sandy Bubbles, developed by a five-person team. The challenge evidence is unusually concrete: the team placed 4th among 375 participants, so this repository supports collaboration, rapid prototyping, gameplay iteration, and shipping under a time-boxed event rather than only listing game-development interest. **Stack / signal:** Game prototype

graphify - GitHub-owned repository | *Public*
An adapted AI coding-assistant skill that turns code, documents, screenshots, diagrams, audio, and video into a queryable knowledge graph. The interesting engineering surface is the context pipeline: persistent graph output, multimodal extraction, AST support, and retrieval-oriented codebase understanding that can help an agent reason over more than plain text files. **Stack / signal:** Python

LaStoriaDiJoJo - GitHub-owned repository | *Public*
A responsive restaurant web application connected to the La Storia Di JoJo business context. It covers interactive menus, event calendars, order-ahead flows, contact and feedback forms, login surfaces, Tailwind styling, and Vite/React/TypeScript delivery—an end-to-end customer-facing product surface where information architecture, conversion paths, and real business content meet. **Stack / signal:** TypeScript, CSS, JavaScript

LaStoriaDiJoJo2 - GitHub-owned repository | *Private*
A private full-stack iteration of the LaStoriaDiJoJo product direction. GitHub language telemetry shows a substantial TypeScript surface alongside PL/pgSQL, JavaScript, CSS, and HTML, which supports describing it as a more data-aware web iteration; the repository contents remain inaccessible, so specific modules and shipped outcomes are intentionally not inferred. **Stack / signal:** TypeScript, JavaScript, CSS

M.Travel - GitHub-owned repository | *Public*
A travel-oriented web surface with a landing page, experience-detail pages, custom JavaScript, and custom CSS. The repository history explicitly includes adding experience detail pages, making it useful evidence of building navigable content/product surfaces and extending a static travel concept into a more structured browsing experience. **Stack / signal:** HTML, JavaScript

MatelasFlow - GitHub-owned repository | *Public*
Desktop warehouse surface of the Ste Habiba Operations Suite: a JavaFX/MySQL mattress-warehouse and store-operations platform with launcher and installation guidance. It models role-aware login, BCrypt password handling, mattress/product CRUD, stock movements, sales, loans, transfers, returns, partner stores, transaction history, statistics, and PDF reporting—strong evidence of desktop software, operational data, authentication, and business-process modeling. **Stack / signal:** Java, CSS

MLocal - GitHub-owned repository | *Private*
A private local/mobile product repository with a substantial Dart footprint and native/platform signals across C++, CMake, Swift, Kotlin, Python, Ruby, C, and Objective-C. The language mix supports describing cross-platform and native integration experience, but the current token cannot read the source contents, so product modules and release status remain unclaimed. **Stack / signal:** Dart, C++, Swift, Kotlin

nexus - GitHub-owned repository | *Public*
An AI-powered UGC production pipeline that turns long-form video into short, captioned, publish-ready clips. The system combines upload and analysis, local Qwen/Ollama and Whisper processing, FFmpeg caption/cut generation, FastAPI job orchestration, and outputs for TikTok, Instagram, and YouTube—showing media pipelines, workers, local inference, and artifact delivery. **Stack / signal:** Python, JavaScript, HTML

OTECH - GitHub-owned repository | *Private*
A private technology-focused web surface with TypeScript as the dominant language and JavaScript/CSS supporting the interface. Because the authenticated GitHub token cannot read its contents or history, it should be positioned as a frontend/product-surface project and stack signal only, without adding unsupported claims about users, integrations, or production scale. **Stack / signal:** TypeScript, JavaScript, CSS

personal-portfolio - GitHub-owned repository | *Private*
The portfolio platform itself: a multilingual Next.js static site with project-atlas generation, searchable project catalogue, translated case-study pages, responsive light/dark presentation, PDF CV delivery, and production health checks. It is evidence of turning a personal brand into a maintainable product surface with authored content, generated data, deployment discipline, and UX quality gates. **Stack / signal:** JavaScript, CSS, Python

pidev3a45 - GitHub-owned repository | *Private*
A private academic/team web application repository with a server-rendered PHP/Twig surface and substantial JavaScript, SCSS, and CSS. The language profile supports backend-rendered UI, templating, and collaborative delivery evidence; source contents are unavailable through the current token, so domain features and completion status are not overstated. **Stack / signal:** Twig, JavaScript, PHP

PiDevJava - GitHub-owned repository | *Private*
A private Java academic/team application with Java as the main implementation language and HTML/CSS presentation layers. It is useful as supporting evidence for object-oriented backend work, server-rendered or web-facing application structure, and team coursework; repository contents are not readable enough to make stronger feature or deployment claims. **Stack / signal:** Java, CSS, HTML

Promptly - GitHub-owned repository | *Public*
A desktop OCR and local-AI assistant that captures text from the screen with Tesseract, lets the user select context through keyboard shortcuts, sends it to Ollama/local models, and presents a cursor-adjacent response popup. Event/error logging and cloud-independent inference make it a concrete example of

desktop UX, local-first AI, context handling, and privacy-aware tooling. **Stack / signal:** Python

pubreelo - GitHub-owned repository | *Private*
A private creator/media workflow repository with Python as the primary language and web-facing JavaScript/CSS/HTML plus shell tooling. The stack indicates an automation-oriented product surface, but the current token cannot read the repository contents; keep it as supporting creator-workflow evidence until its jobs, media stages, and release state are verified. **Stack / signal:** Python, JavaScript, CSS

Pulse-Web - GitHub-owned repository | *Public*
A public Symfony/PHP web application with Twig templates, JavaScript, CSS, translations, Docker Compose configuration, PHPUnit configuration, and a structured src/templates/tests layout. The commit history shows user integration, template integration, and CRUD iterations, providing evidence of server-side product work, testing structure, localization, and incremental delivery. **Stack / signal:** Twig, JavaScript, PHP

Pulseweb - GitHub-owned repository | *Public*
A separate public web repository retained as an independent project record. The current authenticated audit could not read a README, source tree, or language telemetry, so the accurate description is limited to a public web-project trace rather than assigning it features or outcomes from its name alone. **Stack / signal:** Not reported

QR-APP-Thamer - GitHub-owned repository | *Private*
A private QR/product application repository with a substantial TypeScript and JavaScript surface, CSS presentation, and shell tooling. It is a useful signal for web-product implementation and QR-oriented interaction work, but source-level access is unavailable, so specific scanning, catalog, authentication, or deployment behavior is not asserted. **Stack / signal:** TypeScript, JavaScript, CSS

SandyBubbles - GitHub-owned repository | *Public*
The public Sandy Bubbles game repository from the Global Game Jam challenge. Built by a five-person team that placed 4th among 375 participants, it supports a stronger story than a generic prototype: rapid concept selection, collaborative game implementation, time-boxed testing, and delivering a playable result under event constraints. **Stack / signal:** Game prototype

SecSystem - GitHub-owned repository | *Private*
A farm-security system architecture connecting an installable Angular PWA, a .NET REST API, ESP-based door sensors, and farm/device/event/alert data. The design includes HTTPS/MQTT-ready edge communication, audit logs, and a later camera-module path; it is currently foundation-stage, so the CV should emphasize architecture and IoT integration rather than claim a finished security deployment. **Stack / signal:** Angular, .NET, ESP

Signlik - GitHub-owned repository | *Private*
SignLik is a Tunisian Sign Language learning and translation ecosystem with Flutter Android/iOS clients, a Spring Boot/Java REST backend, MySQL, TensorFlow Lite, Python MediaPipe preprocessing, JWT authentication, chat, and learning flows for 57 signs with Arabic transliterations. The documented inference path captures camera frames, normalizes 21 hand landmarks into 42 values, and returns a predicted sign with confidence. **Stack / signal:** Java, Python, Dart, TypeScript

sonofarcads - GitHub-owned repository | *Private*
A Local-Arcads product workspace for local-first AI video-ad generation. Its documented architecture spans a web studio/API, script generation, visual/video/TTS stages, provider adapters, hardware detection, CLI and dry-run execution, model inventory, queues, licensing direction, and runtime validation; present it as serious product infrastructure and experimentation, not as proof of market adoption. **Stack / signal:** Python, TypeScript, HTML

sonofcoderabbit - GitHub-owned repository | *Private*
An AI-assisted developer-review platform architecture workspace designed around API gateway/load-balancer, application, data, service, and security layers. Local design notes cover GitHub integration, scalable queues/background processing, review and analysis workflows, and service boundaries; the GitHub source is private, so describe architecture and product direction without claiming public adoption. **Stack / signal:** Python, JavaScript, Shell

sonofcotester - GitHub-owned repository | *Public*
An AI-powered software-testing platform scaffold with a NestJS control plane, queue worker for execution/healing/analysis, React/Tailwind dashboard, shared SDK/domain types, Prisma persistence, provider adapters, AI test generation, failure healing, and bug summarization. It demonstrates how testing can be treated as an observable product workflow rather than only a local command. **Stack / signal:** TypeScript, JavaScript, HTML

sonofcursor - GitHub-owned repository | *Private*
A private AI coding-tool repository with a substantial TypeScript implementation and JavaScript/CSS product surface. The stack supports describing it as an AI developer-tool direction with a web or desktop-facing interface, but the token cannot read its source or documentation, so architecture, integrations, and release claims remain intentionally open. **Stack / signal:** TypeScript, JavaScript, CSS

Soukly - GitHub-owned repository | *Private*
A private TypeScript marketplace/e-commerce product direction. Its repository identity and dominant language support positioning it as a product-surface and commerce workflow project, while the unavailable source prevents safe claims about catalog, payments, users, logistics, or production maturity. **Stack / signal:** TypeScript

stehabibafrontend - GitHub-owned repository | *Private*
The frontend surface for the Ste Habiba Operations Suite, linking product/commerce presentation with operator-facing flows around warehouse management, online selling, and mobile access. It should be presented as one layer of the broader business system rather than a standalone marketing page; GitHub source-level detail remains pending. **Stack / signal:** TypeScript, JavaScript, CSS

systeme-de-pointage - GitHub-owned repository | *Private*
An RFID attendance and workforce-tracking system documented as serving 20 employees. It joins Arduino/ESP/RC522 card hardware, boss and employee flows, Python/Flask dashboarding, SQLite logs, PDF reports, WhatsApp daily and month-end summaries, payroll visibility, and later QR/stock-management extensions—an unusually concrete hardware-to-operations system. **Stack / signal:** HTML, Python, C++

task-WebApp-pourNoor - GitHub-owned repository | *Public*
A public task-management web-application repository retained as a separate implementation record. The current token audit cannot read a README or source tree, so the reliable description is limited to the task/web-app product category and public repository status rather than inventing a framework, data model, or shipped feature list. **Stack / signal:** Web application

tndvertise-ai - GitHub-owned repository | *Private*
A Tunisia-focused advertising and AI product direction with a substantial HTML/Python surface and shell/Docker-oriented runtime signals. It is relevant to local-business and creator workflows, creative automation, and product experimentation; source-level access is unavailable, so adoption, performance, and customer claims must stay out of the CV. **Stack / signal:** HTML, Python, CSS

trackhub-AI - GitHub-owned repository | *Private*
A private tracking and platform workspace with an AI and operations-visibility direction. The project is best framed around event/data visibility, platform boundaries, and exploratory product architecture until source access confirms its data model, workflows, integrations, and release state; do not convert the name into unsupported scale claims. **Stack / signal:** TypeScript, JavaScript

tradisio - GitHub-owned repository | *Private*
A mobile-first commerce and cultural product direction documented around customer routes, meal and menu selection, 3D customization, chef booking, live order tracking, and admin orders, calendars, and inventory. Azure deployment planning adds an operations angle; the strongest CV framing is product architecture and workflow integration, not unverified production adoption. **Stack / signal:** TypeScript, JavaScript, CSS

TuniCut-AI - GitHub-owned repository | *Private*
A local-AI/media product direction for creator and advertising workflows, including video generation/editing, runtime integrations, provider boundaries, and Tunisian-market framing. It belongs beside Local-Arcads as architecture and prototyping evidence, with a clear distinction between implemented workflows, planned integrations, and production adoption until repository source review is available. **Stack / signal:** TypeScript, Python, JavaScript

ubermoto - GitHub-owned repository | *Public*
A motorcycle-delivery marketplace with Flutter/mobile-first UX, customer delivery creation, driver acceptance and availability, admin/catalog direction, Google Maps geolocation, distance/fuel cost calculation, WebSockets/Socket.IO live tracking, JWT/RBAC, validation, and notifications. Its documented backend baseline includes 148 passing tests, while the security-hardening plan explicitly tracks rate limiting, password protection, HTTPS/CORS, payments, verification, backups, monitoring, and load testing. **Stack / signal:** Dart, TypeScript, Swift, Kotlin

video-use - GitHub-owned repository | *Public*
An open-source agent-driven video-editing workflow that removes filler and dead space, applies color and audio fades, burns captions, can spawn animation providers, self-evaluates cut boundaries, and persists session memory through project files. It is useful evidence of AI-assisted media orchestration, deterministic editing operations, provider abstraction, and repeatable artifact generation. **Stack / signal:** Python, HTML, Shell

way-finder - GitHub-owned repository | *Public*
An enterprise-oriented NestJS travel-booking backend with 26 feature modules and more than 150 documented API endpoints. It brings together JWT/Google/Apple authentication, OTP and password reset, Amadeus flights/hotels, AI recommendations, Google Maps, WebSocket chat, Firebase push notifications, loyalty rewards, analytics, and video generation—strong evidence of decomposing a large product domain into services and workflows. **Stack / signal:** TypeScript, JavaScript

WayFinder - GitHub-owned repository | *Public*
A NestJS/MongoDB travel backend focused on core product reliability: profiles, bookings, payment integration boundary, Socket.IO realtime paths, validation, throttling/rate limiting, Helmet, Swagger/OpenAPI, Docker Compose, health endpoints, and environment-driven configuration. It is a useful companion to the larger way-finder system because it makes security, observability, and deployability explicit rather than leaving them as presentation claims. **Stack / signal:** TypeScript, JavaScript

WorkshopMobile - GitHub-owned repository | *Public*
A public Kotlin/Android repository with Gradle project structure, an app module, and a documented sign-in/sign-up plus homepage iteration. It supports a concrete mobile-engineering story around Android project setup, authentication-adjacent UI, navigation, and incremental feature delivery; keep broader feature or release claims out until the remaining source documentation is reviewed. **Stack / signal:** Kotlin

TECHNICAL SKILLS MASTER LIST

Programming: Java, TypeScript, JavaScript, Python, C/C++, C#, PHP, SQL, Kotlin, Swift, Dart

Frontend & .NET/Angular: React, Next.js, Vite, Angular, .NET APIs, Tailwind CSS, HTML5/CSS3, responsive UI, dashboards, admin panels, brand/product surfaces

Backend: Node.js, Express, NestJS, Fastify, Spring Boot, Symfony, Flask, .NET APIs, REST APIs, WebSockets, workers, queues

Delivery Leverage: Cross-platform contracts, shared domain decisions, reducing duplicated implementation, faster handoffs, release-path alignment, delivery-time awareness

Mobile Engineering: Android/Kotlin, Jetpack Compose, Swift/SwiftUI, Flutter/Dart, responsive mobile UX, backend integration, cross-platform product thinking, mobile release workflows

Desktop: Electron, JavaFX, Monaco editor, xterm.js, desktop apps, local-first tools, IDE surfaces

Databases: PostgreSQL, MySQL, MongoDB, SQLite, Prisma, Mongoose, phpMyAdmin, SQL schema design, admin/operations data modeling

AI / ML: OpenAI APIs, prompt engineering, Ollama/local AI, local models, MCP, TensorFlow, Keras, OpenCV, computer vision, gesture learning, AI workflow design, AI media runtime integration

Security: JWT, CORS, Helmet, auth flows, RBAC, upload limits, rate limiting, security headers, cookie flags, bounded authorized checks, QA/security reviews

DevOps / SecOps / DBOps / FinOps: Git/GitHub, Jenkins, CI/CD, Docker, SonarQube, Azure, Prometheus, Grafana, health checks, security reviews, auth/RBAC, data operations, environment-driven config, cost-aware infrastructure planning, Kubernetes exposure

Operations / Product: Jira, requirements analysis, user stories, acceptance criteria, architecture documentation, runbooks, release checklists, demo flows, client/product communication

Architecture Judgment: Modular boundaries, service decomposition, trade-off analysis, architecture diagrams, API maps, design reviews, maintainable handoffs, evolutionary design

Hardware / IoT: Arduino, ESP-class microcontroller workflows, RC522/RFID cards, sensors/LCD exposure, camera/security-system installation, VMware/Linux exposure, hardware-to-web integration

Testing / QA: Playwright, Vitest, E2E flows, test reports, lint/typecheck/build checks, release-hardening notes, feature inventories, readiness conclusions

Working style: Communication, mentorship, cross-functional leadership, resilience, customer empathy, creative problem solving, time management, adaptability

LEADERSHIP, COMMUNITY AND AFFILIATIONS

- IEEE WIE Challenge: lead engineer for official event website; accessible, mobile-first launch.
- IEEE RAS Challenge: gesture-driven robotics control and automation exploration.
- IEEE PES Challenge: AI + IoT dashboard concept for energy monitoring pilots.
- IEEE SIGHT / SignLik: accessibility-oriented AI and inclusive product direction.
- MATE ROV Competition: joined through L'Idéale Nabeul in 2nd year of high school; part of the Tunisia-winning team and later Egypt/U.S. international stages.
- JCI Nabeul: youth leadership, active citizenship, community service, and local positive-change activities.

- Inactus ESPRIT: social entrepreneurship environment focused on student projects with economic, social, and environmental impact.
- ACM ESPRIT Student Branch: member; coached C-ool-Algo-Rythm and served on the Solve IT 2.0 organizing committee.
- Problem solving: LeetCode/Codeforces-style practice and peer training for programming competitions.

HONORS AND AWARDS

- Global Game Jam 2025: 4th place among 375 participants with Sandy Bubbles, built by a five-person team.
- RamathonX 1.0 Ideathon: 2nd place in an individual problem-solving challenge; certificate of appreciation from IEEE SESAME IAS Student Branch.
- Competitive swimming awards from the swimming pool of La Marsa and Ideal Sports Center, Nabeul; competitive swimming since 2014/15.
- MATE ROV Competition: Tunisia winner, Arab Regional winner, and U.S. international competitor in 2019.
- TEK-UP University Game Development Hackathon: built a puzzle-game prototype with a four-person team.

LICENSES AND CERTIFICATIONS

- UIK AI Engineering Hackathon Certificate: developed AI models for hydroponic and aeroponic systems and integrated them into a website.
- ACM Solve IT 2.0: Certificate of Recognition as an organizing committee member (2025).
- C-ool-Algo-Rythm: Certificate of Participation as a coach, ESPRIT / Honoris United Universities (2025).
- RamathonX 1.0: Certificate of Appreciation, IEEE SESAME IAS Student Branch (2025).
- MATE ROV Competition: Certificate of Participation, AASTMT (2019).
- Other certifications: Sustainable Finance Certification (AMF); GOMYCODE JavaScript Professional Certificate; TCF B2 language assessment (2021; expired).
- Languages: Arabic native; French fluent; English advanced; German learning.
- Interests and discipline: open-water swimming; 13 years of competitive swimming; bodybuilding training and coaching.
- Community interests: charity work, active citizenship, social entrepreneurship, accessibility, education, and helping-oriented technology.

COMPLETE EVIDENCE REGISTER

- ACM ESPRIT Certificate of Recognition: Organizing Committee Member, Solve IT 2.0; awarded 11 May 2025.
- RamathonX 1.0 Certificate of Appreciation: IEEE SESAME IAS Student Branch, held 21-22 March 2025. The 2nd-place result is participant-provided; the local certificate confirms participation and appreciation.
- C-ool-Algo-Rythm Certificate of Participation: Coach, ESPRIT / Honoris United Universities; issued 26 February 2025.
- MATE ROV Competition certificate: participant in the 8th edition at AASTMT, 11-13 April 2019. LinkedIn records the Tunisia win, Arab Regional win, and U.S. international stage.
- TCF French assessment: B2 overall result from the 11 December 2020 session; issued 19 January 2021 and expired 18 January 2023.
- ITBS attendance attestation: first-year Integrated Preparatory Cycle, Information Technology, academic year 2021/2022, Nabeul.
- Ideal Sports Center attestation d'adhésion: Natation section through the Les Écoles Idéales program from the 2014/2015 school year, noting punctuality and regularity.
- UIK AI Engineering Hackathon: participant-provided certificate and project description covering AI models for hydroponic and aeroponic systems integrated into a website; supporting certificate is not in the local certificate folder at this pass.
- Global Game Jam 2025 / Sandy Bubbles: participant-provided 4th place among 375 participants with a five-person team; local game-jam repositories support the project context.
- TEK-UP University Game Development Hackathon: participant-provided four-person puzzle-game prototype; no ranking or credential file supplied in the local certificate folder.
- Swimming competition awards: participant-provided awards from the La Marsa swimming pool and Ideal Sports Center, Nabeul; do not add medal names or placements without the exact award documents.
- Cross-channel reference: LinkedIn lists ESPRIT education for 2022-2026, ACM ESPRIT membership, the same challenge credentials, and competitive swimming history; keep dates aligned when tailoring.

TAILORING GUIDE BY ROLE

- General software engineering CV: lead with CogniCare, WayFinder, Sahara, CyberTNAttack/UtopiaHire, skills, ESPRIT, and 1 coordination bullet. Keep it 1-2 pages.
- Mobile role: lead with WayFinder, CogniCare mobile, WorkshopMobile, Android/Kotlin, Jetpack Compose, SwiftUI, UIKit, Flutter exposure, and mobile architecture notes.
- Mobile AI product role: lead with WayFinder native clients, CogniCare mobile delivery, Flutter cross-platform work, product experiments, responsiveness, testing, release quality, and AI-enabled workflows without claiming audio-specific shipping.
- Backend/API role: lead with WayFinder backend, CyberTNAttack, UtopiaHire, NestJS/Fastify/Express, MongoDB/PostgreSQL/Redis/BullMQ, auth, validation, Swagger, and worker/report flows.
- AI integration role: lead with Sahara, Promptly, AI-Prompts, TuniCut-AI/Local-Arcads, Graphify, OpenAI/Ollama/MCP, prompt engineering, local AI, and workflow automation.
- DevOps/QA role: lead with CogniCare and WayFinder DevOps, Jenkins, SonarQube, Docker, Prometheus/Grafana, test reports, release hardening, and security reviews.
- Security role: lead with CyberTNAttack, security readiness checks, auth/RBAC/JWT, CORS/Helmet/rate limiting, report generation, and responsible defensive framing.
- Java/.NET/enterprise role: lead with MatelasFlow, PiDevJava/pidev3a45, AirportManagement, Java/JavaFX/MySQL, C#/.NET/Angular exposure, CRUD, reports, and operations modeling.
- Startup/product role: lead with CogniCare, Ste Habiba/BibaLuxe, DevisPilot, CheckAuto, UtopiaHire, Local-Arcads, product ownership, client communication, and business workflow automation.
- Social-impact role: lead with CogniCare, SignLik/IEEE SIGHT, JCI, Inactus, IEEE, care/accessibility, association requirement-gathering, and community service.

PHRASES WORTH REUSING

- Product-minded Software Engineer with full-stack, mobile, AI, DevOps, security, and IoT/RFID project evidence.
- Turns ambiguous needs into architecture, Jira tasks, working prototypes, documentation, QA/security review, and demo-ready releases.
- Architecture-minded and trade-off-aware: defines boundaries, documents decisions, and designs systems that other engineers can extend without guesswork.
- Builds practical systems for care, travel, developer tooling, security readiness, career support, operations, attendance, and AI workflows.
- AI-accelerated but review-grounded: uses AI to move faster, then validates through code review, integration, tests, docs, and working demos.
- When you learn how to use AI properly, your current knowledge stops being the ceiling. Your imagination becomes much closer to it.
- I build it. I learn what I'm missing. I improve it. I ship it. Then I do it again.
- The distance between imagination and execution has never felt this small.
- Officially open to work: product engineering, full-stack systems, mobile, AI, automation, DevOps, and security.
- Client motto: Your imagination is my limit.
- Personal principle: Built with honesty, intelligent work, and the ambition to leave every system better than I found it.