

Anas Jafir

Software Engineer — Backend & AI Integration

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Open to remote work and relocation

SUMMARY

Certified software engineer (ALX) specialising in backend development (Python, FastAPI, Flask, REST, PostgreSQL) and **production LLM integration**. Sole architect and engineer of a documentary database and its mobile reader, live today with **1,049 published articles behind 804 tests and 32 verifiers gating every commit**. Hybrid background — medical training, then software engineering — focused on digital health and data (Stanford Medicine certified). Proven practice of **directing AI coding agents under deterministic gates** rather than by code review.

PROFESSIONAL EXPERIENCE

Software Engineer — Freelance | CerDoc — Economic Research Database

Jun. 2026 – Present

- Designed and shipped an end-to-end documentary database and reader application for an **independent economic research centre** — sole technical contributor, from architecture to client delivery.
- Built a **document conversion pipeline** turning twenty years of inconsistent Word files into structured records (title, date, source, keywords, body, images, nested tables): **5 batches delivered, including 469 documents converted in a single pass with zero failures**.
- Shipped a **FastAPI ingestion platform** (DigitalOcean) and a **mobile reader** (React Native / Expo, Vercel), live with **1,049 articles across 201 topics**; interface designed for a single non-technical, visually impaired user (computed legibility floor).
- Modelled the **Supabase / PostgreSQL** layer: JSONB structures, RLS policies, idempotent upserts, migrations and backfill; auto-provisioned **Airtable mirror** (Metadata API) with a non-blocking quota circuit breaker. **Internal LLM service** with two implementations behind one contract — no business code depends on a vendor.
- Established an **804-test, 32-verifier safety net** gating every commit, each check deliberately broken on write to prove it fails when it should; **directed an AI coding agent** through those deterministic gates rather than by reviewing generated code.

Python, FastAPI, React Native / Expo, TypeScript, Supabase, Cloudinary, DigitalOcean, Vercel, Git.

Backend Developer Intern — AI Health Application | Avyna

May – Dec. 2025

- Built **AI-powered health recommendation** and symptom-tracking features on the backend of a consumer health application.

AI Trainer — Code Quality Review | Outlier

Jan. – Mar. 2025

- Reviewed and graded AI-generated Python code for correctness, robustness, readability and adherence to best practice; produced structured feedback used as model training signal.

Full-Stack Developer | Oralease — Dental Practice Management

Sep. – Nov. 2024

- Designed the data model (SQLAlchemy, PostgreSQL), built the backend APIs and the security layer (RBAC, encryption); **shipped the MVP to production**.

Full-Stack Developer | Do I Need A Doctor — Production project

2024 – 2025

- AI-driven symptom analysis application (Next.js, React), built on an AI-assisted accelerated cycle; deployed to production.

SIDE PROJECT

AI-Agent-Automated Domain Investing | Independent venture

May 2026 – Present

- Designed and run a **multi-agent AI system (Claude, MCP)** automating a real commercial operation end to end: daily inbox triage, scheduled weekly prospecting, briefings and assisted drafting of negotiation emails.
- Automated CRM** (prospect pipeline, deduplication, exclusion lists) synchronised with Gmail; multichannel international B2B outreach (UK, Morocco).

TECHNICAL SKILLS

Languages: Python, TypeScript, SQL, C, R

Backend: FastAPI, Flask, REST API design, SQLAlchemy, Pandas, service-oriented architecture

Databases: PostgreSQL, Supabase (JSONB, RLS), MySQL, SQLite — modelling, migrations, backfill

AI & Automation: production LLM integration (Claude, OpenAI, Gemini), autonomous and scheduled AI agents (Claude, MCP), evals and deterministic gate tests, prompt engineering, business workflow automation

Quality & Testing: pytest, deliberate check sabotage, deterministic verifiers, blocking CI

DevOps & Security: Docker, Nginx, Gunicorn, CI/CD, Git/GitHub, DigitalOcean, Vercel; authentication, RBAC, encryption, SSL/TLS

Frontend: React, Next.js, React Native / Expo, HTML, CSS, Bootstrap

EDUCATION

Stanford University School of Medicine | Deep Data Research Center / Dept. of Genetics

2025

- *Data Science for Precision Medicine & Cloud Computing* (May – Jul. 2025): bioinformatics, multi-omics analysis, scalable pipelines (Python, R, cloud), ML-based diagnostics.
- *Fundamentals of Data-Driven Precision Medicine for Diabetes* (Dec. 2025, 40 h): data-driven precision medicine applied to diabetes.

ALX — Software Engineering Programme | graduate, Backend specialisation

2023 – 2025

- *AI for Developers* (2025): rapid prototyping with LLMs and AI-integrated developer tooling.
- *AI Starter Kit* (2025): AI automation, generative media, prompt engineering.
- *Backend Specialisation* (2024): production-ready backend systems and APIs (Python, Flask, PostgreSQL, SQLAlchemy).
- *Full-Stack Foundations* (2023 – 2024): C, algorithms, data structures, web applications, DevOps.

Hassan II University — Faculty of Dental Medicine, Casablanca

- Dental medicine curriculum (fundamental and clinical medical sciences) — deliberate transition to software engineering; medical grounding now applied to digital health and diagnostic AI.

SELECTED PROJECTS

AirBnB Clone — Full-stack project

- Flask / SQLAlchemy / MySQL backend, Master-Slave replication, deployed to production.

Thoot Track — Dental practice management CLI

- Database schema (MySQL, SQLAlchemy ORM), Python command-line data management tool.

CERTIFICATIONS

- ALX Software Engineering Programme — Graduation Certificate, Back-end specialisation (Nov. 2024)
- Stanford Medicine — Fundamentals of Data Science in Precision Medicine and Cloud Computing (2025)
- Stanford Medicine — Fundamentals of Data-Driven Precision Medicine for Diabetes (Dec. 2025)
- ALX — AI for Developers (2025) • ALX — AI Starter Kit (2025)

LANGUAGES

- **Arabic:** native • **French:** bilingual • **English:** professional working proficiency