

OMAR DERKAOUI

Backend Software Engineer

@omarderkaoui1337@gmail.com

+212 7 62 67 49 42

gundam1337

omarderkaoui.cc

PROFILE

Backend-focused software engineer with a track record of shipping production features in fintech and trading platforms. Specialized in NestJS, PostgreSQL/Oracle, and integrating complex legacy banking systems. 1337 Coding School (Common Core) graduate with strong systems fundamentals from C/C++ and a mathematics background that informs how I approach backend architecture and problem-solving.

PROFESSIONAL EXPERIENCE

Backend Software Engineer

 **FinaMaze – AI-driven Investment Platform**

Feb 2025 – Present

Casablanca, Morocco

- Joined as the first backend contributor on a B2B fintech platform serving a major Middle Eastern bank, where AI-driven asset managers build, rebalance, and oversee investment portfolios for the bank's clients.
- Owned end-to-end design and delivery of the onboarding and KYC module, integrating with the bank's legacy SOAP APIs – reverse-engineering undocumented endpoints without a sandbox environment to ship a working flow into UAT.
- Designed Oracle database schemas from scratch for authentication, user onboarding, notifications, and messaging modules; optimized critical queries through targeted indexing strategies.
- Built the notifications and messaging subsystems, including background jobs and queue-based dispatch for asynchronous delivery at scale.
- Implemented JWT/Passport authentication, login and registration flows, and instrumented services with Prometheus for production monitoring.
- Took 6 backend modules through UAT and pre-production while collaborating across a 24-person engineering organization (backend, frontend, DevOps, QA).

NestJS OracleDB TypeORM JWT / Passport Prometheus

SOAP Integration BullMQ Jest Jira

Backend Developer

 **AIKON Mobile App – Connecting Traders**

Oct 2024 – Feb 2025

Remote

- Contributed backend features to an iOS social-trading platform that combines messaging and trading workflows in a single mobile experience.
- Designed and built the WhatsApp Business API integration and the surrounding business logic, enabling traders to engage with the platform through a familiar messaging channel.
- Implemented real-time chat assistance using Socket.io, allowing traders to communicate with support agents and other users without leaving the app.
- Modeled the PostgreSQL tables required for the messaging and integration features, and shipped them as part of the production backend.
- Implemented authentication flows with JWT and social login providers; collaborated remotely with a team of 3 backend, 2 frontend, and 1 DevOps engineer.

SKILLS

Backend

NestJS Spring Boot Node.js

Python Express FastAPI

PostgreSQL OracleDB

MongoDB TypeORM Redis

Socket.io JWT / Passport

Jest Prometheus

BullMQ SOAP Integration

WhatsApp Business API Firebase

Firebase Admin Nodemailer

Puppeteer

Frontend

Next.js 15 React 19 TypeScript

Tailwind CSS Zustand

TanStack Query Radix UI

Framer Motion React Hook Form

Zod ECharts Recharts Axios

Testing & Project Management

Unit Testing Jest Jira

DevOps

Git GitHub GitHub Actions

Docker Linux

LANGUAGES

- Arabic – Native
- French – Professional
- English – Professional

HOBBIES

- Competitive Chess (Blitz ELO 2300)
- Geometry & Mathematics Olympiads

Spring Boot

PostgreSQL

Socket.io

JWT

WhatsApp Business API

Full Stack Engineer

 **Upwork – Freelance**

 Feb 2024 – Oct 2024

 Remote

- Delivered 3 projects end-to-end for international clients on Upwork.
- **GuardianPass** – Built a Chrome extension, a React dashboard, and a Node.js backend with Clerk for authentication and Convex as the database, giving users a secure password manager accessible from both the browser and the web.
- **RESTful API** – Developed a small set of RESTful API endpoints using Node.js and PostgreSQL for a client requiring structured data access.

Node.js

Express

PostgreSQL

React

Clerk


Convex

Strapi

Mathematics Teacher



Ministry of National Education (Morocco)

 Sep 2021 – May 2024

 Beni Mellal, Morocco

- Taught mathematics to high-school students for three years while transitioning into software engineering through 1337 Coding School – designed lesson plans, assessments, and progress tracking for classes of up to 35 students.

EDUCATION

Teaching Certificate – Secondary Mathematics

CRMEF Béni Mellal-Khénifra

 2020 – 2021

 Béni Mellal, Morocco

- *Certificat de Qualification Pédagogique d'Enseignement Secondaire* – one-year state program (40% pedagogical theory, 60% supervised classroom practice) qualifying graduates for the national secondary teaching corps.

Computer Science – Common Core

 **1337 Coding School**

 Dec 2018 – Jun 2022

 Khouribga, Morocco

- Intensive peer-led, project-based program (Moroccan branch of 42 Network); specialized in low-level systems and graphics with C/C++ – notable project: a multi-threaded ray tracer with realistic lighting.

Bachelor of Science and Technology



FST Beni Mellal

 2014 – 2019

 Beni Mellal, Morocco

- Electronic Engineering and Telecommunications. Coursework in electronics, signal processing, telecommunications, and industrial computing.