Mouaad Mohamed Laouar

Full-Stack Software Engineer | Node.js / NestJS • Go • React / Next.js • PostgreSQL

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Professional Summary

Full-stack software engineer with **3+ years** (full-time since 2025) building **real-time fintech and blockchain trading products** on a remote team. I own features end to end, from **PostgreSQL** data models and **NestJS / Go** services to **React / Next.js** front ends, with a focus on correctness where money moves. MSc in Computer Science (2026).

Professional Experience

Software Engineer Jun 2023 – Present
Dextrolab — full-time contractor since Mar 2025; part-time Jun 2023 – Feb 2025 *Belgium-based, Remote*

∼150 merged pull requests on a 6–8 person remote team building real-time crypto-trading products on Solana.

Copy-trading platform (live) — Go, PostgreSQL, React 19

- **Primary front-end engineer:** delivered the product redesign end to end (React, Go REST APIs, PostgreSQL migrations); authored the **React 19 + Vite SSR** front-end foundation and a **component library used by three products**.
- Designed and documented (architecture decision record) **at-most-once execution** for external trade signals, so each signal trades once across regions, retries and restarts; rolled it out from shadow mode to live.
- Extended the **multi-region Go trade-execution engine** with tiered, millisecond-precise automated exits while keeping every position sold **exactly once**, rolled out safely while old and new versions ran side by side.
- Built **real-time trade alerts** (transactional outbox + server-sent events, integration-tested for rollback, deduplication and replay) and **OAuth 2.0 PKCE** sign-in with per-product access control; fixed a login-lockout bug.
- Fixed trade-execution bugs from on-chain evidence; ∼**1:1 Go test-to-code ratio**, incl. PostgreSQL integration tests.

Trading terminal — NestJS, Next.js, NATS JetStream, ClickHouse, Redis

- Built a **referral and rewards program** end to end: NestJS API, Prisma schema and migrations, an event-driven reward-tracking service on **NATS JetStream** with unit and integration tests, and the Next.js pages.
- Built **real-time price alerts** across the chart UI, NestJS API and WebSocket gateway, fixing duplicate alerts and alerts lost on a cold **Redis** cache; added portfolio and platform-volume analytics on **ClickHouse**.

Bitcoin NFT tools — part-time, sole developer, Jun 2023 – Feb 2025

- Built and ran a **NestJS** NFT sales tracker (4 marketplaces, posts to X/Discord) and a **Koa + Prisma** API.

Contract & Freelance Work (part-time) 2023 – Present
Self-employed / Sinto Agency / devca.io *Remote & Annaba, Algeria*

- **Dawiitech (client, in pilot testing):** pharmacy and prescription platform: **NestJS + Prisma** REST API and an **Expo / React Native** app with patient and pharmacy flows and push notifications; Turborepo, CI/CD, EAS builds.
- **Sinto Agency (fixed-term contract, Dec 2023 – Jul 2024):** built, deployed and maintained 7 client websites.
- **devca.io (Germany, 2024):** built the DevCaProxy front end from Figma designs (Next.js, Tailwind CSS).

Key Project

DiabCare — *Diabetes patient-management platform for CHU Annaba (University Hospital)* 2026

- MSc final project: **product lead of a 3-person team** building a real-time PWA for doctors to follow diabetic patients; I owned hospital requirements, auth, core pages and **Docker CI/CD** (NestJS, Next.js, PostgreSQL, WebSockets).

Technical Skills

Languages: TypeScript, JavaScript, Go, SQL **Blockchain:** Solana (trading, on-chain analysis), Bitcoin Ordinals
Backend: Node.js, NestJS, Go, Express / Koa, REST APIs, WebSockets, SSE, NATS JetStream, OAuth 2.0 / JWT
Data: PostgreSQL (transactional outbox, migrations), Prisma, ClickHouse, Redis
Frontend: React 19, Next.js, Vite (SSR), design systems, Storybook, React Native / Expo, Tailwind CSS
Testing & DevOps: Vitest, Testcontainers, Docker, GitHub Actions CI/CD, Bazel, Sentry, AI coding agents

Education

MSc in Computer Science (Computer Systems & Decision-Making) — *Badji Mokhtar – Annaba University* 2024 – 2026
BSc in Computer Science — *Badji Mokhtar – Annaba University* 2021 – 2024
Teaching: designed and taught an introductory React workshop for university students 2023