

# EI Mahdi MOUBARAK

## Senior Software Engineer · SaaS & AI

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Full-stack engineer and **pragmatic builder** with 6+ years of experience delivering SaaS products. I specialize in shipping clean features, refactoring legacy systems, and automating the boring stuff. Whether leveraging **AI-assisted development** to accelerate delivery or solving complex problems with simple, robust logic, I am dedicated to **high-quality craftsmanship** over unnecessary abstractions.

## Professional Experience

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### Full-Stack Engineer | Board of Cyber Mar 2023 – Feb 2026

Paris, France (Remote) Core contributor to Security Rating®, a cyber posture assessment SaaS used by 200+ organizations.

- **Continuous Delivery:** Shipped platform features across the frontend, sustaining a **high-cadence release cycle** that supported rapid user base scaling.
- **Quality & Automation:** Optimized **CI/CD pipelines** and established comprehensive test coverage with **Spectator**, ensuring **100% regression-free deployments**.
- **Security Tooling:** Engineered an automated **Python-based nmap** vulnerability scanning probe, significantly accelerating **external attack surface** data collection.
- **Technical Debt Reduction:** Led incremental **Angular migrations** and major dependency upgrades, systematically modernizing the stack without disrupting the product roadmap.

### Full-Stack Engineer | ALTAO – Health Care Sector Sep 2021 – Sep 2022

Lille, France (On-site) Architected a **greenfield** medical platform replacing a fragmented legacy workflow.

- **Product Ownership:** Led the product lifecycle from medical requirement workshops to technical design, translating complex health domain constraints into a **scalable architecture**.
- **AI/ML Integration:** Built the core platform from scratch and integrated **prediction algorithms**, turning raw **Data Science models** into a production-ready system for doctors.
- **Infrastructure:** Provisioned and managed the complete **AWS infrastructure** autonomously (**EC2, Route53, Amplify**), guaranteeing **high availability** and secure auditing.

### Mobile Software Engineer | Deuspi Mar 2021 – Jun 2021

Lille, France (Remote)

- **Mobile Transition:** Built and shipped the V1 **React Native** mobile application from scratch, successfully transitioning the business from a web-only model to a **native mobile experience**.
- **UX & Integration:** Implemented a **gamified UI** to drive retention and co-architected **real-time APIs** with backend teams for **live order tracking**.

### Full-Stack Engineer | Worldline Apr 2019 – Aug 2019

Seclin, France (On-site)

- **Process Optimization:** Developed a centralized R&D dashboard with **MQTT broker integration**, eliminating manual debugging and saving **hours of engineering time** per week.

## Technical Expertise

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**Languages & Frameworks:** TypeScript, Python, Angular, Vue.js, React Native, Next.js, Django, Node.js

**Cloud & DevOps:** AWS (EC2, Route53, Amplify), Docker, PostgreSQL, CI/CD, GitHub, Vercel, Supabase

**AI & Tooling:** AI Pair Programming, Claude/Gemini APIs, Multi-pass OCR/Vision pipelines, OpenClaw

## Projects & Open Source

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### PDFold | Indie SaaS

Mar 2026

- **AI Pipeline Engineering:** Designed and shipped a **multi-pass AI pipeline** handling **OCR**, layout understanding, and structured **Markdown** generation.
- **Product Launch:** Shipped the end-to-end product (**Next.js**, **TypeScript**, **Gemini API**) with a freemium model and automated **Stripe billing**, from zero to production.

### env-doctor | Open Source CLI

Feb 2026

- **Developer Tooling:** Built and published `@metamarkets/env-doctor` on **npm**. Engineered a **schema-driven CLI** validation tool for environment variables with robust **type checking**.

### Video Generator | Flask & Multi-modal AI

Jan 2023

- **Early AI Adoption:** Engineered an early-stage multi-modal pipeline (**GPT**, **DALL-E**, **ElevenLabs**) to automate video generation from text scripts.
- **System Integration:** Built the core web service with **Flask** and **Python**, orchestrating multiple APIs to synchronize voice narration, image generation, and video assembly.

### E-commerce Store | Shopify

Mar 2021 – Sep 2021

- Built and operated a profitable online store for managing entire lifecycle (SEO, marketing, tech)
- **Custom Development:** Developed custom plugins and themes using **Liquid**, tailoring the platform to specific business requirements beyond out-of-the-box features.

## Interests & Personal Growth

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- **Music (17 years of Guitar):** Deeply committed to musical theory and performance; former Vice-President of the Music Club (IMT Nord Europe). Regular participant in local music scenes and collaborative jam sessions.
- **Metaphysics & Philosophy:** Passionate about the study of perception, reality, and spiritual growth. I believe that "we don't see the world as it is, but as we are," applying this lens to problem-solving and leadership.
- **Strength Training:** Disciplined practice focused on physical resilience and consistency, mirroring the dedication required for long-term technical mastery.

## Education

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### Master's Degree in Computer Science | IMT Nord Europe

2017 – 2022

France

- **Focus:** Full-stack development, distributed systems, cybersecurity, networks.

### French Baccalaureate, Mathematics | Lycée Français Louis Massignon

2017

Casablanca, Morocco

- **Network:** AEFÉ (French International School Network).