

Mustapha Lamhamdi Alaoui

Java Full Stack Engineer · Spring Boot · React · Microservices · Cloud & DevOps · AI-Augmented Development

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SUMMARY

I'm a full stack engineer with a background that spans production backend systems, mobile apps, and team leadership. Most of my work has lived in the Java and Spring Boot ecosystem — building APIs, securing services, and keeping things running reliably in production. On the front end I've spent the last few years working with React and TypeScript, and I also built mobile experiences using Flutter. I'm comfortable across the stack: from writing JUnit tests and configuring Docker pipelines to thinking through database schemas and optimizing queries. Something I've been deliberate about over the past year is integrating AI tools into my daily workflow — using Claude Code for context-aware code generation, Cursor for in-editor assistance, and various LLM APIs to automate repetitive engineering tasks. I've introduced these tools to colleagues and seen real gains in how fast we move as a team. Currently based in Morocco (GMT+1), which gives me a solid timezone overlap with both European and Gulf teams.

WORK EXPERIENCE

Java Full Stack Engineer · Centre Mohamed IV de la Recherche et de l'Innovation *May 2025 – Present*

Healthcare SaaS platform · Spring Boot 3 · React 18 · Flutter · PostgreSQL · Docker · AWS · Claude Code · AI tooling

- Built and currently maintains a healthcare SaaS platform from the ground up — backend services written in Java 17+ and Spring Boot 3, mobile client in Flutter, and a React frontend.
- Designed and implemented RESTful APIs following REST best practices; secured endpoints with Spring Security including JWT-based authentication and role-based access control.
- Worked with Hibernate/JPA for ORM and PostgreSQL for data persistence; wrote raw SQL for complex reporting queries and tuned indexes to keep response times under 200ms on the most-used endpoints.
- Set up Docker containerization and a CI/CD pipeline using GitHub Actions — pushing to staging and production with automated test gates, which cut deployment incidents significantly.
- Integrated Claude Code and AI-assisted development tools into the team's workflow — used for code generation, review automation, and documentation drafting, which noticeably shortened our feature turnaround time and reduced back-and-forth on code reviews.
- Wrote unit tests with JUnit 5 and Mockito, covering critical service-layer logic; integrated SonarQube into the pipeline to keep code quality scores above threshold before any merge.
- Handled production monitoring and incident response — reading logs, tracing slow queries, and applying hotfixes when needed to keep the platform stable for clinical users.

Co-Founder & Technical Project Manager · Branding Bulbs *Nov 2022 – Sep 2025*

Digital branding agency · Team leadership · Agile delivery · API integrations · WordPress

- Co-founded a digital agency and took the lead on the technical side — reviewing architecture decisions, setting coding standards, and jumping in on development when the team needed it.
- Managed delivery across 20+ client projects using JIRA; ran weekly sprints, wrote acceptance criteria, and made sure the team consistently hit deadlines without burning out.
- Handled direct client communication for technical projects — translating vague requirements into workable specs and keeping expectations aligned throughout the build.
- Built and maintained several PHP Laravel and WordPress sites, including custom theme development, third-party API integrations, and performance optimization work.

PHP Laravel Developer · M-TECH *Jan 2022 – May 2023*

PHP · Laravel · WordPress · REST APIs · MySQL

- Developed custom WordPress themes and plugins for client sites; also built standalone web apps with Laravel handling routing, authentication, and backend logic.
- Integrated several third-party REST APIs (payment gateways, CRM connectors) and wrote backend validation and error handling to keep integrations robust.
- Optimized front-end assets and caching strategies that visibly reduced page load time on key client landing pages.

TECHNICAL SKILLS

Backend	Java 17+, Spring Boot 3, Spring Security, Hibernate, JPA, REST APIs, Microservices, Node.js, PHP, Laravel
Frontend	React 18, TypeScript, JavaScript ES6+, Next.js, HTML5, CSS3, Flutter
Databases	PostgreSQL, MySQL, MongoDB, Redis
Cloud & DevOps	AWS (EC2, S3, Lambda), Docker, Kubernetes, CI/CD, GitHub Actions, Jenkins
Architecture	Microservices, Event-Driven Architecture, SOLID Principles, Design Patterns, RESTful API Design
Testing	JUnit 5, Mockito, Integration Testing, SonarQube
Tools	Git, GitHub, JIRA, Maven, Gradle, IntelliJ IDEA, VS Code, Swagger/OpenAPI
AI & Productivity	Claude Code, Cursor, GitHub Copilot, LLM API Integration (Anthropic, OpenAI), AI workflow automation, Prompt Engineering

EDUCATION

Engineering Degree in Computer Science (5-year program) · ISMAGI2024 – 2027

Ongoing 5-year engineering program in computer science — covers software development, algorithms, distributed systems, databases, and system design. Equivalent to a Master's degree.

IT Development Specialist — Full Stack · EPIM2020 – 2022

Two-year intensive program in full-stack web development, covering front-end (HTML, CSS, JS, React) and back-end (Java, PHP, MySQL) technologies with hands-on project work.

CERTIFICATIONS

- FreeCodeCamp — JavaScript Algorithms & Data Structures
- FreeCodeCamp — Responsive Web Design
- DataCamp — Understanding Data Science · Understanding Data Visualization
- Anthropic — Claude Code in Action
- In progress: AWS Certified Developer – Associate (target Q2 2026)

LANGUAGES

Arabic — Native French — Professional English