

MOHAMMED EDDARIF
Full Stack Engineer | Spring Boot · Angular
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SUMMARY

Full-Stack Engineer with 3 years of experience in Java/Spring Boot and Angular, shipping features in a production enterprise platform and designing a multi-tenant SaaS end to end on my own. Strong in multi-tenant architecture, role-based access control, REST API design and concurrency control. I take features from business requirements through architecture and delivery. PhD researcher in AI and Computer Vision. Oracle Certified Professional, Java SE 17.

EXPERIENCE

Full Stack Developer (Spring Boot/Angular) - IR4LAB Africa Mar 2024 – Present

- Owned end-to-end delivery of new core features on DocCerts, an enterprise blockchain-based Document Management System in production, including a support-user role with automated organization-based ticket routing.
- Led the migration of the DocCerts frontend from Angular v12 to v21 across nine major versions, incrementally and without production downtime, adopting standalone components and modern Angular patterns.
- Designed and built a multi-tenant announcement module with two broadcast levels, super-admin and organization, targeted by user role and hierarchy.
- Collaborated directly with clients in requirement-gathering sessions to translate complex business needs into actionable technical specifications.
- Mentored two interns building a Python RAG chatbot service, and designed the integration architecture for connecting it to the platform.
- Reduced API response times by about 35% by refactoring complex MongoDB aggregation pipelines.

ERP Developer (Odoo/Python) - IT Advisor MA Jul 2022 – Jan 2023

- Designed and deployed customized Odoo enterprise modules and Python/PostgreSQL backend solutions based on client specifications gathered during stakeholder sessions.

EDUCATION

PhD Researcher in AI/CV | EST, Ibn Tofail University | 2025 - Present.
Master's Degree in Software Engineering for Cloud Computing | Faculty of Sciences, Ibn Tofail University | 2022 – 2024
Bachelor's Degree in Mathematics and Computer Science | Faculty of Sciences, Ibn Tofail University | 2018-2022.

PROJECTS

Raaqib (Multi-Tenant Stock Management SaaS) Spring Boot · PostgreSQL · Next.js | In Progress

- Multi-tenant SaaS that helps clothing retailers manage stock across several stores, record sales fast, and catch any sale priced below the minimum.
- Built the multi-tenant backend from scratch, with tenant isolation, JWT auth with rotating refresh tokens, and Owner/Admin/Employee roles
- Added a subscription model with trial, plan tiers, and usage limits, plus optimistic locking so two sales can't corrupt the same stock.
- Trilingual Next.js frontend (EN/FR/AR, with RTL), backed by Flyway migrations and Testcontainers integration tests.

TECHNICAL SKILLS

- **Backend/Databases** : Java 17 (OCP), Spring Boot, Spring Security, Spring Data JPA, Hibernate, REST APIs, Python, PostgreSQL, MongoDB, MySQL, Supabase.
- **Frontend** : Angular, TypeScript, Next.js, React, JavaScript, Tailwind CSS.
- **DevOps/Tools**: Docker, GitHub Actions (CI/CD), Git, Maven, Flyway, Testcontainers.
- **Familiar (non-production)**: AWS (Cloud Practitioner), Kubernetes, microservices, Keycloak
- **AI / ML** : Computer Vision (PhD research), RAG (concepts)

CERTIFICATIONS

OCP Java SE 17 Developer (Oracle, 2025)	-	CI/CD (IBM, 2024)
Docker, Kubernetes & OpenShift (IBM, 2023)	-	AWS Cloud Practitioner (AWS, 2023)