

Hassan El Khatoury

Computer Science Engineering Student | Java Backend | Spring Boot | PFE 2027

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PROFESSIONAL SUMMARY

Computer Science Engineering student at ENSA Al Hoceïma (graduating 2027) specializing in enterprise Java backend development. Dual Oracle Certified Professional (Java SE 11 & Java SE 17) with hands-on experience building RESTful APIs, relational data models, and layered enterprise architectures using Spring Boot, Spring Data JPA, and Hibernate. Completed a software engineering internship at the Ministry of Economy and Finance developing backend fleet management modules. Seeking a 2027 Final-Year Internship (PFE) in Java Backend Development.

EDUCATION

Engineering Degree in Computer Science (Software Engineering Option) 2024 – 2027 (Expected)

ENSA Al Hoceïma (École Nationale des Sciences Appliquées d'Al Hoceïma) – Morocco

Relevant Coursework: Advanced Java Programming, Software Architecture & UML, Database Administration, Algorithms, Linux.

Preparatory Classes for Engineering Cycle 2022 – 2024

ENSA Al Hoceïma (École Nationale des Sciences Appliquées d'Al Hoceïma) – Morocco

PROFESSIONAL EXPERIENCE

Software Engineering Intern Jul 2026 – Sep 2026

Ministry of Economy and Finance (MEF), Rabat, Morocco (Hybrid)

- Developed backend features for an enterprise fleet management system using Java, Spring Boot, Spring Data JPA, and Hibernate.
- Designed and integrated REST APIs and relational database entities for vehicle, insurance, fuel, maintenance, and operational cost management.
- Modeled JPA relationships and structured SQL queries to enforce data validation, business rules, and transaction consistency.
- Applied Git version control, Agile sprint workflows, unit testing, and clean architecture principles in cross-functional collaboration.

Freelance Full-Stack Developer Mar 2026 – Jun 2026

MODEYA – E-Commerce Platform (Remote)

- Engineered a full-stack e-commerce platform using Next.js, React, TypeScript, and Supabase PostgreSQL.
- Designed an 18-table relational database schema with role-based authentication and secure cash-on-delivery checkout workflows.
- Built an administrative management dashboard for real-time inventory tracking, orders, and business analytics.

TECHNICAL PROJECTS

InterviewAI – AI-Assisted Java Desktop Platform Java 17, JavaFX, Maven, MySQL, REST APIs

- Built a desktop interview coaching platform in Java 17 and JavaFX featuring layered architecture and gamification.
- Integrated Google Gemini and OpenRouter REST APIs to deliver contextual feedback, automated evaluation, and coaching.
- Implemented secure BCrypt authentication, role-based access control, and a structured DAO persistence layer with MySQL.

MongoShardLab – Distributed MongoDB Cluster Laboratory MongoDB, Docker, Docker Compose, Linux

- Designed and deployed a distributed MongoDB sharded cluster lab to evaluate horizontal scaling, query routing, and fault tolerance.
- Configured replica sets, config servers, shard nodes, and mongos query routers across multi-node environments with Docker Compose.
- Analyzed chunk migrations, shard key distributions, and automatic node failover under simulated workloads.

SKILLS & TECHNOLOGIES

Programming Languages: Java (Java 11, Java 17), SQL, Python, JavaScript, TypeScript, C, C++, PHP

Java & Backend: Spring Boot, Spring Data JPA, Hibernate, RESTful APIs, Clean Architecture, Maven, OOP, Design Patterns

Databases: MySQL, PostgreSQL, MariaDB, MongoDB (Sharding, Replication), Relational Data Modeling

Cloud, DevOps & Tools: Oracle Cloud Infrastructure (OCI), Docker, Docker Compose, Git, GitHub, GitLab, Linux

Software Engineering: Unit Testing, Agile/Scrum, Layered Architecture, Integration Testing

CERTIFICATIONS

Oracle Certified Professional: Java SE 17 Developer ▪ Oracle Certified Professional: Java SE 11 Developer

Oracle Cloud Infrastructure 2025 Foundations Associate ▪ Git & GitHub Fundamentals for Developers ▪ English for Career Development

LANGUAGES

Arabic (Native) ▪ English (Fluent) ▪ French (Intermediate)