

# EL FELAOUSS MOHAMED ELAMINE

Full Stack Software Engineer — Web • Mobile • Data • AI Integration

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## PROFESSIONAL SUMMARY

Polyvalent Full Stack Software Engineer who adapts fast across stacks and delivers from audit to production. Shipped enterprise web platforms (Django/DRF, React, PostgreSQL at Capgemini), cross-platform mobile apps (React Native, Firebase at JESA), Java J2EE/Angular systems, data pipelines and ML engines (Python, Scrapy, Scikit-learn), and AI-powered products using LLM APIs. Security-driven engineering proven by a #15 national CTF ranking (2025–2026). Available immediately for a full-time software engineer position — any stack, ready to deliver from week one.

## WORK EXPERIENCE

### Software Engineer, Internship (PFE) — Capgemini Engineering Maroc

Casablanca, Morocco | Mar 2026 – Present

- Own the end-to-end migration of AMOS, the EMS Operations platform, from a legacy 63-sheet Excel workflow to a full-stack web app (Django, DRF, React, PostgreSQL) — from audit and schema design to build and delivery.
- Audited the existing versioning implementation against business specs; uncovered critical gaps — absent mission versioning, overlapping project history records, and a sync gap of 21 missions and 96 projects — then designed and delivered the corrective schema and migration plan.
- Engineered database-level integrity safeguards, including PostgreSQL GIST exclusion constraints guaranteeing non-overlapping temporal history and a reliable audit trail of every project and mission change.
- Reverse-engineered undocumented rate card cost logic from Excel formulas and re-implemented it as tested backend services exposed through versioned REST API contracts.
- Built the reference-data admin modules (currencies, exchange rates, countries, legal entities) with localized date handling; lead development of the platform's notification engine.
- Translate requirements from EMS Operations stakeholders into specs and UML diagrams, shipping features through a corporate Git-based review workflow.

### Full Stack Developer, Internship — Jacobs Engineering S.A. (JESA)

Casablanca, Morocco | Apr 2025 – Jun 2025

- Designed and developed an internal IT Asset Management platform tracking the full equipment lifecycle across the company.
- Built a cross-platform mobile app (Expo React Native, Firebase, Google Cloud) backed by a REST API with automated reporting, reducing manual asset tracking effort for IT teams.

## SKILLS

**Backend & APIs:** Python, Django, Django REST Framework, Flask, Node.js, Express, Java, J2EE, PHP, Laravel, REST API design

**Frontend & Mobile:** React, Next.js, TypeScript, JavaScript, Angular, React Native, Expo, HTML, CSS

**Databases & Data:** PostgreSQL (schema design, constraints, migrations), MySQL, Oracle, MongoDB, Firebase, Pandas, Scrapy, Scikit-learn

**DevOps & Tools:** Docker, Kubernetes, Git, GitLab, Linux, Postman, Vercel, UML, Agile/Scrum

**AI & Integration:** LLM API integration (Claude API), AI-powered product development, prompt engineering, automation

**Cybersecurity:** OWASP Top 10, secure-by-design development, web penetration testing, Metasploit, CTF

**Languages:** English (C1), French (B2), Arabic (Native), Russian (Basics)

## EDUCATION

### Professional Bachelor's in Software Engineering — ESTEM Casablanca

Sep 2025 – Jul 2026 | Software architecture, web & mobile development, databases, networking, cybersecurity, Java J2EE, Oracle.

### Full Stack Web & Mobile Development — ISTA NTIC, Casablanca

Sep 2023 – Jul 2025 | React, Node.js, Laravel, PostgreSQL, Docker, Kubernetes, Agile/Scrum.

### Back-End & Data Engineering Program — ALX Africa

2024 – 2025 | Python, Django, RESTful APIs, system design, scalable architecture.

### Computer Science & Software Engineering — State University of Radio Engineering, Ryazan, Russia

Sep 2021 – Jul 2022 | One year of academic study abroad.

## PROJECTS

- **ShipScore — AI Startup Idea Scorer:** built and deployed an AI-powered web app (React, Claude API, Netlify) scoring startup ideas end to end, from concept to live product.
- **Moroccan Real Estate Market Intelligence:** end-to-end data pipeline (Python, Scrapy, Pandas) analyzing listings; dashboards revealing pricing trends and geographic patterns.
- **Real Estate Recommendation System:** ML engine (Pandas, Scikit-learn) with collaborative filtering and matrix factorization ranking listings by user behavior.
- **Enterprise Full Stack Application:** Java J2EE, Angular, TypeScript, MySQL, Docker; scalable APIs and containerized deployment.

## AWARDS & ACHIEVEMENTS

- Ranked #15 in Morocco across CTF cybersecurity competitions (2025–2026).
- 0xFUN CTF 2026 — 136th / 1,359 worldwide (web exploitation, reverse engineering, cryptography, forensics).
- TaipanByte CTF — 63rd / 461 worldwide in an international cybersecurity competition.