IMEN LAKHAL

Computer Science Engineer

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SUMMARY

I am a recently graduated Computer Science engineer from the National School of Computer Science (ENSI), specializing in Software Engineering. I am currently seeking a full-time opportunity where I can apply my skills, contribute to innovative projects, and continue growing as a software developer.

EDUCATION

2022 - 2025 — **Engineering cycle in computer sciences** — University of Mannouba
National School of Computer Science - ENSI

2020 - 2022 — **Preparatory Diploma in Mathematics and Physics** — University of Monastir
Preparatory Institute for Engineering Studies Monastir-IPEIM

EXPERIENCE

Feb–June 2025 — **Final Year Project: Risk Management Platform** — TELNET
- Developed a web application for managing project- and process-related risks within an enterprise context.
- Implemented user authentication, role-based authorization, and permissions management.
- Designed advanced filtering features and implemented automated email notifications.
- Conducted code quality analysis with SonarQube through Jenkins CI pipeline and security testing with OWASP ZAP.
- **Tools:** `Angular / Spring Boot / Spring Security / Swagger / SonarQube / OWASP ZAP / Jenkins`

June-July 2024 — **Summer internship: Real-Time Employee Tracking and Feedback System** — LEONI
- Developed a web platform allowing administrators to track employees in real-time on an interactive map, ensuring accurate updates at regular intervals.
- Created a mobile app enabling employees to activate and share their location.
- **Tools:** `Flutter / Firebase / React JS`

July 2023 — **Summer internship: Mobile Application Development** — Simsoft Technologies
- Design, develop the front-end of a mobile application for order management .
- **Tools:** `Flutter / Figma`

PROJECTS

August 2024 — **Python API Development using FastAPI, PostgreSQL and Docker Integration** — github.com link
- Built a full API in Python using FastAPI.
- Set up CI/CD pipelines with GitHub Actions.
- Automated testing with pytest.
- **Tools:** FastAPI / SQLAlchemy / PostgreSQL / Docker / Docker Compose / GitHub Actions / Pytest / Postman.

Feb-May 2024 — **Mobile Application for Train Tracking** — github.com link
- Developed a mobile application based on GTFS data, providing users with real-time access to train schedules, routes, and station information.
- Enabled users to plan trips, view delays, and submit feedback.
- Integrated secure user authentication.
- Implemented object detection using Convolutional Neural Networks for monitoring accidents.
- **Tools:** Flutter / Spring Boot / PostgreSQL / Git / Python / Fast API / ReactJS / Machine Learning .

SKILLS

Programming:	Python, Java, TypeScript, JavaScript, C++, C.
Databases:	MYSQL, SQL, MongoDB, PostgreSQL, Firebase.
DevOps:	Docker, Docker Compose, Jenkins, Github Actions.
Frameworks:	Angular, Node.js, React.js, Flutter, Spring Boot, Spring Security, FastAPI, Django.
Tools:	Git, VS Code, Postman, Android Studio, IntelliJ.

LANGUAGES

English - Intermediate, **French** - Intermediate, **Spanish** - Beginner, **Arabic** - Native

EXTRACURRICULARS

2023 – 2024 — **Media Manager** — IEEE CS ENSI Student Branch Chapter