

MOHAMED KARIM OUERTATANI

Computer Engineering Student | Full-Stack Web and Mobile Developer

Tunis, Tunisia | +216 52 684 042 | mohamedkarim.ouertatani@gmail.com
linkedin.com/in/med-karim-ouertatani | github.com/KarimOuertatani | medkarim-ouertatani.tn

PROFILE

Final-year computer engineering student at ESPRIT, specializing in full-stack web and mobile development, from backend design (Spring Boot, NestJS, Symfony) to user interfaces (Flutter, Next.js, React, Angular). Regularly integrates AI and IoT across diverse domains: healthcare, fitness, smart cities and e-commerce.

EDUCATION

Engineering Degree in Computer Science (5-year post-secondary program) 2022 - 2027 (expected)
ESPRIT - Private Higher School of Engineering and Technology, Tunis, Tunisia
Tunisian Baccalaureate in Experimental Sciences (high school diploma), with Honours 2022

TECHNICAL SKILLS

Languages: Java, TypeScript, JavaScript, Python, Dart, Kotlin, Swift, PHP, SQL, HTML/CSS
Frontend and Mobile: Flutter, React, Next.js, Angular, JavaFX, Tailwind CSS, Bootstrap, iOS (Swift), Android (Kotlin)
Backend and APIs: Spring Boot, NestJS, Symfony, FastAPI, Flask, REST APIs, WebSocket, Prisma, Auth.js
Databases: PostgreSQL, MySQL, MongoDB, Firebase
AI and IoT: Google Gemini (generative AI), machine learning, ESP32, Arduino
Tools and Methods: Git, Docker, Postman, Vitest, automated testing, Linux, Agile

PROFESSIONAL EXPERIENCE

Full-Stack Mobile Developer Intern - National Computer Centre (CNI), Tunis Jul. 2026 - Aug. 2026

- Designed and built FitForge AI end to end, a mobile fitness coaching app (Flutter, Spring Boot, PostgreSQL).
- Integrated Gemini generative AI and developed the web admin console in Next.js.

Web and Mobile Developer Intern - ArabSoft, Tunis Jun. 2025 - Jul. 2025

- Developed an e-commerce application: Spring Boot API, Flutter mobile app and Angular admin panel.
- Contributed to the technical architecture, testing and deployment of the application.

Technical Intern, Fibre Optics - Tunisie Télécom, Tunis Aug. 2023

- Monitored customer fibre optic installations in collaboration with the technical team.

PROJECTS

FitForge AI - AI Fitness Coaching | Flutter, Spring Boot, Next.js, Gemini Jul. 2026 - Aug. 2026

- AI-generated workout plans, photo and voice meal logging, and real-time coach-member chat.

Ares RH - Leo Club Tunis Ares Management | Next.js, TypeScript, PostgreSQL, Prisma Aug. 2026 - Sep. 2026

- Members, attendance, points system, anonymous voting, recruitment and automated emails.

DiabCare - Diabetes Management | NestJS, Flutter, React, Flask, ESP32 Jan. 2026 - May 2026

- Platform connecting patients, doctors and pharmacists, with a connected glucometer and an AI module.

Vibra - Cycling, Hiking and Camping Outings | Swift, Kotlin, NestJS Nov. 2025 - Jan. 2026

- iOS and Android apps with AI-powered personalized activity recommendations.

NoorCity - Smart Street Lighting | JavaFX, Symfony, Arduino, ESP32 Feb. 2025 - May 2025

- Real-time monitoring and remote control of street lights through Wi-Fi sensors.

LabCraft - Fab Lab management web platform (equipment, bookings, training) Jan. 2024 - May 2024

Diazen - Medical web application for healthcare professionals and patients Sep. 2023 - Dec. 2023

COMMUNITY INVOLVEMENT

- Leo Club Tunis Ares** - Head of Membership (2026-2027 term), Social Service Lead (2025-2026 term) and Founding Member (since Dec. 2023). Volunteered to build the club's official website and management app.
- IEEE** - Member (2022-2023) | **Tunisian Red Crescent** - Volunteer, humanitarian work (2021)

LANGUAGES

French: Advanced (C1) | **English:** Upper-intermediate (B2) | **Arabic:** Native | **Spanish:** Basic (A1)