

MOHAMED AMINE BENKHOUD

Full-Stack Mobile Developer | Computer Science Student

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PROFESSIONAL SUMMARY

Ambitious **Full-Stack Mobile Developer** with 3+ years building scalable, user-centric solutions. Skilled in **Flutter**, **NestJS**, **Firebase**, **AWS**, and **IoT** with **ESP32**, **MQTT**, **AWS IoT Core**. Passionate about innovation, architecture, and impactful tech.

TECHNICAL SKILLS

- **Languages:** Dart, JavaScript, Python, SQL, C/C++
- **Frameworks:** Flutter, NestJS, React, Django
- **Databases:** MongoDB, MySQL, Firebase Firestore, Hive
- **Cloud/DevOps:** AWS (ECR, S3, IoT), Docker, GitHub Actions, CI/CD, Jira
- **IoT:** ESP32, MQTT, PlatformIO, C++, prototyping
- **Design:** Figma, Photoshop, Illustrator

PROFESSIONAL EXPERIENCE

Full-Stack Developer — Orange Developer Center, Tunis

Jul–Oct 2025

Internship (On-site)

- Built cross-platform **Flutter** app with **JWT role management (NestJS + MongoDB)**.
- Integrated backend with **AWS ECR, S3, IoT Core** and real-time **MQTT**.
- Designed IoT prototypes with **ESP32 (C++, PlatformIO)**.

Result: Delivered fully functional IoT–Cloud–Mobile ecosystem.

Mobile Developer — Lebjawi Tech, Mauritania

May–Jun 2025

Internship (Remote)

- Developed modular **Flutter** apps with **MVVM Clean Architecture (Bloc, Riverpod)**.
- Translated Figma designs into responsive screens.
- Participated in code reviews for scalability and maintainability.

Learning: Mastered state management, modular architecture, and agile collaboration.

Full-Stack Developer (Volunteer) — Red Crescent, Gabes

Nov 2024–Mar 2025

Community Project (Hybride)

- Developed **Flutter + Node.js** platform with secure **JWT-based access**.
- Integrated **Google Maps API** for real-time coordination.
- Deployed backend on **cPanel**, optimized REST APIs.
- Managed hybrid **MySQL + MongoDB** data architecture.

Impact: Empowered 600+ users, processed 1,500+ forms, logged 86k+ events.

SELECTED PROJECTS

Ichraak — Cross-platform waste platform (**Flutter, Firebase, React**). Geolocation, dashboards, reporting workflows.

WasteOff — AI-driven app for food waste detection (**flutter + TensorFlow + Express.js**).

Tradicare — AI medical translator (**Flutter, Firebase, OpenAI API**).

OAScanner — Satellite imagery analyzer (**PyQt5 + MERN + Google Maps**), 1st Prize Smart Oasis Hackathon.

CERTIFICATIONS & ACHIEVEMENTS

Hack4Food (2nd, 2025) · Master Faster 2.0 (3rd, 2025) · Smart Oasis (1st, 2024) · X-Days Hackathon (1st, 2024) · Certified Trainer (AJST, 2023)

EDUCATION

BSc in Computer Science — ISIMG, Tunisia

2023–Present

High School Diploma, Math Major — El-Amal High School, Gabes

2023

LANGUAGES

Arabic (Native) · English (B2) · French (B1) · German (A1)