

MOHAMED AMIN GANA

Future IoT Engineer

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🌐 mohamedamin123.github.io/Portfolio

Profile

Currently an IoT engineering student, I am seeking a **final year internship (PFE)** to apply my skills in software development, embedded systems, artificial intelligence, and cloud technologies in real-world, high-value projects.

Technical Skills

- **Languages:** Java, C, Python, SQL, XML, Arduino
- **Web:** HTML/CSS, JavaScript, Angular, Spring Boot
- **Mobile:** Android (Java), React Native
- **Databases:** MySQL, Oracle SQL, MongoDB
- **IoT/OS:** Arduino, ESP32, Raspberry Pi, Linux, Windows
- **Cloud/AI:** Firebase, Machine Learning (ML), Deep Learning (DL)
- **Methodologies/Modeling:** UML2, MVC

Education

Engineering Degree in Computer Science (IoT) – EPI Digital School, Sousse · 2023–Present

National Applied Bachelor's Degree in Computer Technology – ISET Sousse · 2020–2023 · *With Honors*

Technical Baccalaureate – Lycée de Moknine · 2019–2020 · *Fairly Good*

Experience

Engineering Internship – Groupe Méditerranée Aquaculture, Teboulba · 01/07/2025 – 30/08/2025

Project: Design of an intelligent cold room monitoring system

- Developed a complete IoT application: **ESP32** collects temperature and humidity, sends data to **Raspberry Pi**, and stores it on **Firebase**.
- Developed an Android mobile app for real-time monitoring and control of cold rooms.
- Created a web administration interface for managing all rooms and alerts.

Freelance – Mobile Developer – Teboulba · 07–08/2024

- Android app for equipment management using **Firebase**

Personal Project – Mobile Development – Moknine · 06–07/2024

- Android app for clothing and customer management (stock, history, Firebase)

Final Year Internship – ISET Sousse · 02–06/2023

- Web/mobile application for housing and event rentals
- Android · Angular · Spring Boot · MySQL

Engineering Internship – TTF Teboulba · 02–06/2022

- Desktop application for stock management

Projects

- **Smart Home (IoT+AI):** Home automation system based on **ESP32**, **Raspberry Pi**, and **Spring Boot**, integrating **OpenCV** for facial recognition and control via **React Native** app.
- **Smart Cold Room Monitoring (IoT):** Complete monitoring system using ESP32, Raspberry Pi, Firebase, and Android. Web interface for room management.
- **Smart Baby Cradle (IoT):** Motion and sound detection with notifications. Used **React Native**, **Express.js**, **Python**, and **AI** to classify baby cries and control the cradle via sensors/actuators.
- **Medical Management:** **JavaFX** + **Spring Boot** application to manage appointments, patients, and secretaries. Features include authentication, dynamic tables, filters, and statistics. **REST API**, **MySQL**.
- **Library Management:** Web application using **Angular** + **Spring Boot** for managing books, loans, and users with an intuitive admin interface.
- **Online Shop:** E-commerce website developed in **Angular**, managing products, cart, and admin interface.

Certifications

- Cisco CCNA 1 & 2 – 2024 (*Cisco Networking Academy*)
- Deep Learning Fundamentals – 2025 (*NVIDIA Deep Learning Institute*)

Languages

Arabic (native), French (B1), English (B1)