

# MOHAMED AMIN GANA

*Future IoT Engineer*

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🌐 [mohamedamin123.github.io/Portfolio](https://mohamedamin123.github.io/Portfolio)

## Profile

Currently an IoT Engineering student, I am seeking a **final-year internship** to apply my skills in software development, embedded systems, artificial intelligence, and cloud technologies through innovative and high-impact 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
- **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 · *Honors*

**Technical Baccalaureate** – Lycée de Moknine · 2019–2020 · *Honorable Mention*

## Experience

**Internship – Groupe Méditerranée Aquaculture, Tébourba** · 07/01/2025 – 08/30/2025

*Project: Study and design of an intelligent monitoring system for cold rooms*

- Designed a complete IoT application: **ESP32** collects temperature and humidity data, sends it to a **Raspberry Pi**, then stores it on **Firebase**.
- Developed an Android mobile app for real-time monitoring and control of cold rooms.
- Created a web-based admin dashboard for room and alert management.

**Freelance – Mobile Developer** – Tébourba · 07–08/2024

- Android app for equipment management (Firebase)

**Personal Project – Mobile Developer** – Moknine · 06–07/2024

- Android app for clothing and client management (inventory, history, Firebase)

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

- Web/mobile application for rental housing and events
- Android · Angular · Spring Boot · MySQL

**Internship – TTF Tébourba** · 02–06/2022

- Desktop application for inventory management

## Projects

- **Intelligent Cold Room Monitoring (IoT):** complete monitoring system based on ESP32, Raspberry Pi, Firebase, and Android. Web interface for room management.
- **Smart IoT Cradle:** motion/sound detection and notifications. Built with **React Native**, **Express.js**, **Python**, and **AI** to classify baby cries and control actuators.
- **Medical Management: JavaFX + Spring Boot** app to manage appointments, patients, and secretaries. Authentication, dynamic tables, filters, statistics. **REST API**, **MySQL**.
- **Library Management System:** web application using **Angular** + **Spring Boot** for managing books, loans, and users with an intuitive admin interface.
- **E-commerce Website:** online store built with **Angular**, including product management, shopping cart, and admin interface.
- **Online Marketplace:** **PHP** application for peer-to-peer buying and selling.

## Certifications

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

## Languages

Arabic (Native), French (B1), English (B1)