



✉ sofienezayati87@gmail.com

☎ 55 321 315

## Social networks

in Sofiene Zayati

🐙 Sofiene Zayati

## Languages

Arabic

Native

English

Advanced

French

Fluent

German

› Goethe-Zertifikat A2

## Programming Languages

- C / C++
- Java
- Python
- PHP
- JavaScript

## Web & Database Technologies

- HTML, CSS
- MySQL
- PHP
- Firebase
- REST APIs & Swagger

## Frameworks & Architecture:

- Symfony
- JavaFX
- MVC Pattern
- Multi-tier apps

## Project Management & Tools

- Scrum
- ClickUp
- Trello
- Git & GitHub
- Visual Studio Code
- IntelliJ IDEA
- PlatformIO
- Arduino IDE

# Sofiene ZAYATI

## Embedded Systems Graduate & Web Technologies Engineering Student

A relentless engineer obsessed with fusing hardware and software into singular, intelligent systems. My foundation in embedded programming is enhanced by growing skills in full-stack web technologies, allowing me to build complete, end-to-end solutions. I am ready to apply AI and machine learning in projects—whether creating smarter, more responsive IoT devices or building data-driven user experiences on the web. I'm not just looking for a role; I'm here to build, innovate, and deliver results.

## Education

### Engineering Degree in Web and Internet Technologies TWIN

Since September 2024

ESPRIT : Ecole Sup Privée d'Ingénierie et de Technologies Ariana Governorate, Tunisia

### Bachelor's Degree in Embedded and Mobile Systems

From September 2021 to June 2024

Higher Institute of Technological Studies of Rades Radis, BA, Tunisia

### Baccalaureate in Technical Sciences

From September 2017 to June 2021 Lycée Technique Farhat Hached Rades Radis, BA, Tunisia

## Work experience

### Internship Embedded Systems & Software Developer

From February 2024 to May 2024 Scheidt & Bachmann Megrine

Creation of smart parking using LPR and mobile app access MacroPark.

### Internship Hardware & Software Project Manager

From January 2023 to February 2023 Scheidt & Bachmann Megrine

Creation of Smart Lock for the Company

### Internship Web Development

From January 2022 to February 2022 Sotunol Megrine

Website Development for the company using HTML CSS JavaScript

## Projects

### InnoMall – Integrated Mall Management System

- Developed a full-stack mall management platform (JavaFX desktop + PHP Symfony web) for admins, shop owners, and clients.
- Built an IoT multi-floor parking system with real-time sensor tracking, live spot status (free, reserved, occupied), and SMS/email confirmations.
- Integrated Stripe API for secure online payments with order tracking.
- Created an AI-powered chatbot for mall inquiries using Gemini API.
- Added event announcements, admin dashboards, PDF report exports, and revenue/occupancy analytics.

• **Tech Stack:** Symfony 6, Java, JavaFX, MySQL, Stripe API, Gemini API, Twilio, IoT Sensors

### MacroPark – Smart Parking System

- Built an LPR-based smart parking system with BLE-enabled mobile app fallback for access control.
- Programmed ESP32 (WT32-ETH01) to control 4 independent barriers via MQTT and BLE, with timed auto-close logic.
- Added hybrid Ethernet/WiFi failover, OTA firmware updates, and JSON config via SPIFFS and a WiFiManager web portal.
- **Tech Stack:** C++, MQTT, BLE, LPR, OTA, SPIFFS, WT32-ETH01

### ZenithHouse – Smart Home Control System

- Created a home automation system for lights, climate, and access control via mobile app.
- Used ESP32 microcontrollers per room and Firebase for real-time sync and user management.
- **Tech Stack:** C++, Firebase

### Smart Unlock

- Designed a keyless employee access system using a BLE mobile app.
- Connected via MQTT to control door lock hardware instantly.
- **Tech Stack:** C++, BLE, MQTT

### SPS (Smart Parking Solution)

- Developed a mobile app to display real-time parking availability
- Aimed to minimize user search time and improve convenience.
- **Tech Stack:** Firebase, Java, XML

### Smart Agri (IoT)

- Built an IoT system to monitor temperature and humidity for agriculture.
- Used Firebase for real-time data viewing in a mobile app.
- **Tech Stack:** C++, IoT Sensors, Firebase