

Mazen Eljaouadi

📞 +21696281899

✉️ mazen.eljaouadi@esprit.tn

LinkedIn linkedin.com/in/eljaouadi-mazen

Github github.com/eljaouadimazen

Education

Computer Science Engineering Student

09/2023 – Present

Private Higher School of Engineering and Technology ESPRIT

Tunis, Tunisia

Pre-Engineering cycle (Mathematics-Physics)

09/2020 – 06/2023

Preparatory Institute for Engineering Studies of Monastir IPEIM

Monastir, Tunisia

Internships

Summer internship at ELYADATA (07/2025 - 09/2025)

"Built a CLI to analyze and optimize SQL queries for performance, detecting subqueries, bad joins, and data type issues."

- Implemented a query parsing and linting engine using SQLFluff with custom rules to detect bad practices such as multiple subqueries, missing join conditions, and non-indexed filters.
- Integrated benchmarking and performance profiling using EXPLAIN ANALYZE, enabling automated comparison between original and optimized queries.
- Developed an auto-rewrite feature leveraging SQLGlot and pattern-based transformations to suggest query improvements.
- Tech Stack:** Python, SQLAlchemy, SQLFluff, SQLGlot, DuckDB, PostgreSQL, CLI, Performance Optimization

Academic Projects

CoConsult ISO 9001 Platform | Java, Spring Boot, Angular, Bootstrap, WebSocket, REST API

"Developed a comprehensive web platform to automate quality management processes in compliance with ISO 9001, focusing on centralizing: audits, documents, training, and key performance indicators."

- Built a modular Spring Boot backend with a scalable RESTful API to support diverse business processes.
- Designed a responsive Frontend using Angular and Bootstrap, ensuring an intuitive user experience for various roles .
- Integrated a real-time chat system using WebSocket to enhance internal communication during audits and non-conformance tracking.

FIT ME UP Application | PHP, Symfony, Bootstrap, MySQL

"Developed a web application for a fitness center integrating workout programs, personalized nutrition plans, and an e-commerce module for sports products and dietary supplements."

- Implemented a dynamic dashboard for coaches to monitor client progress, manage nutrition schedules, and update training plans in real time.

SMART CITY Application | FlutterFlow, Firebase, Google Maps API, UI/UX Design

"Developed a mobile-first events management module within the Smart City app using FlutterFlow, enabling admins to: create, update, and delete city-hosted events such as festivals, markets, and sports activities."

- Designed and built a real-time events listing interface, displaying upcoming city events with detailed views.
- Integrated a map-based location display using Google Maps API for intuitive geographic visualization of event venues.

Technical Skills

Programming Languages

Python, Java , C, C++ , TypeScript, ASP.NET

Backend Frameworks

Spring Boot, Symfony

Frontend Frameworks

Angular, Bootstrap

Databases

PostgreSQL, MySQL

Software Engineering Technologies

Git, Restful APIs, Websockets

Languages

Arabic

Native

English

Full Professional Proficiency

French

Full Professional Proficiency

Spanish

Elementary Proficiency