

# Mazen Eljaouadi

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## Education

<b>Computer Science Engineering Student</b>	<b>09/2023 – Present</b>
Private Higher School of Engineering and Technology ESPRIT	Tunis, Tunisia
<b>Pre-Engineering cycle (Mathematics-Physics)</b>	<b>09/2020 – 06/2023</b>
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 SQLGlott and pattern-based transformations to suggest query improvements.
- **Tech Stack:** Python, SQLAlchemy, SQLFluff, SQLGlott, 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