# MOHAMED AZIZ ZEDDINI

## Fullstack Development Intern

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⭐ github.com/zeddiniaziz

## SUMMARY

Computer Science student at the Higher Institute of Information and Communication Technologies, aspiring fullstack developer with a solid backend foundation and advancing frontend expertise. Dedicated to building reliable and efficient applications, with a strong interest in exploring the use of AI to enhance functionality and performance.

## EDUCATION

### Bachelor's Degree, Computer Science, Software Engineering

**Higher Institute of Information and Communication Technologies, University of Carthage**

📅 09/2023 - Present   📍 Borj Cedreia, Ben Arous

### Baccalauréat in Computer Science

**Chabeb High School, Manouba**

📅 06/2023   📍 Manouba, Tunisia

| Very Good |
|---|
| **16.9** / 20 |

## PROFESSIONAL EXPERIENCE

### Fullstack Development Intern

**Redig.io**

📅 06/2025 - 08/2025   📍 Ariana, Tunisia
🔗 warcha.redig.io

Contributed to the development of a full-stack SaaS platform for repair shops, enhancing workflow management and automating website generation.

- **Developed** a responsive UI component library using React and Tailwind CSS, ensuring scalable and reusable design patterns.
- **Provides** a comprehensive admin dashboard displaying sales insights, usage statistics for services, products, and spare parts, as well as payment-method analytics.
- **Displays** a full inventory overview, including stock quantities, spare-part categories, and overall stock valuation.
- **Introduced** a QR-code tracking system and invoice generator for real-time order monitoring and automated billing.
- **Integrated** Supabase serverless functions (Auth, Storage) to support core backend logic and asset management.
- **Tech stack:** TypeScript, React, Tailwind CSS, Node.js, Express.js, Supabase, Netlify.

## PROJECTS

### End-of-Year Project | Full-Stack – University Administration Platform

📅 03/2025 - 05/2025
🔗 github.com/zeddiniaziz/istic-admin-dashboard

Built and maintained a full-stack administrative platform for managing university data and operations.

- **Engineered** a full-stack administrative platform for managing university operations and academic data.
- **Designed** detailed system and data-flow diagrams to guide development and improve overall architecture clarity.
- **Optimized** database interactions to enhance performance and scalability across core modules.
- **Built** RESTful APIs supporting authentication, students, professors, lectures, branches, and certifications.
- **Added** dynamic filtering, search, and complete CRUD operations to improve the admin experience.
- **Tech stack:** React 18, TypeScript, Vite, Tailwind CSS, Shadcn, Express.js, PostgreSQL.

### Intelligent Chatbot System with Hybrid AI Architecture | Machine Learning and NLP

📅 11/2025 - 12/2025
🔗 github.com/zeddiniaziz/intelligent-chatbot

Built a car sales Automotive **RAG** chatbot that combines fast FAQ retrieval with smart **LLM** routing to deliver accurate answers.

- **Developed** a two-stage **semantic search engine** pipeline using **sentence embeddings** to retrieve contextually relevant answers from a structured **knowledge base**.
- **Bi-Encoder** Top-K retrieval (SentenceTransformers+FAISS) followed by **Cross-Encoder** re-ranking for high-precision matches.
- **Developed** a routing layer with numeric/specific intent detection (price, year, model, specs) and **in-domain/out-of-domain** classification using **Isolation Forest** on embeddings.
- **Orchestrated** confidence-based decision logic (FAQ vs LLM), boosting answer accuracy while keeping latency low.
- **Tech stack:** Python, Sentence-Transformers, FAISS, Scikit-learn, Pandas, Numpy, NLTK, OpenAI API, FastAPI/Uvicorn, React, TypeScript, Vite, Tailwind CSS, Shadcn-UI.

## SKILLS

Problem Solving, Algorithms, OOP (Java/JS), Asynchronous Programming

HTML5, CSS, JavaScript, React, Next.js, Angular, TypeScript, Tailwind CSS

Node.js, Express.js, Spring Boot Java, RESTful API Design, Supabase

Database Modeling & Management (SQL, MongoDB), ORM, Prisma, Docker, Machine Learning, Data Science, Python, Pandas, Version Control, Git, GitHub