Marzouki Mouaid

Junior Backend Developer · Software Engineering Student

Bizerte, Tunisia | +216 54 526 215 | marzoukimouaid.mm@gmail.com | GitHub | LinkedIn

SUMMARY

Backend-focused software engineering student with production experience in REST APIs, AI pipelines, and full-stack delivery. Shipped a NestJS API (JWT/RBAC, **85%** test coverage), an OCR/LLM pipeline at **92%** accuracy, and a multi-agent AI platform with LangChain and LangGraph.

EXPERIENCE

Backend Developer July 2025 - August 2025

INSAT Junior Enterprise, Tunis, Tunisia (Internship)

- Delivered modular NestJS/TypeScript REST API with **10+** modules, improving scalability by **30%**
- Implemented JWT auth with refresh tokens and bcrypt, securing **50+** endpoints
- Engineered RBAC with **4** access levels, MySQL schema with **14+** entities, and Python AI microservice over WebSocket
- Achieved **85%** Jest coverage

AI and Backend Developer June 2025 - July 2025

MajestEYE, Tunis, Tunisia (Internship)

- Engineered invoice extraction pipeline (OCR + LLM) for **500+** documents at **92%** accuracy
- Tuned Tesseract/OpenCV preprocessing, reducing noise by **80%**
- Shipped FastAPI backend handling **100+** requests/minute, React UI with $<$ **2**s response time, and SQLite/SQLAlchemy persistence for **10,000+** documents

Full-Stack Developer 2026

Axess Logistique, Tunis, Tunisia (Internship)

- Built a NestJS/Prisma/PostgreSQL module for a WMS platform (RBAC, warehouses, stock)
- Unified local JWT auth and Symfony SSO with client-side claim merging for permissions and warehouse scope
- Developed a React (Vite) dashboard with role-based navigation and a realtime support chat (Socket.IO) assisted by AI (Gemini)
- Added cross-cutting audit logging and containerized deployment (Docker, Nginx)

PROJECTS

Nagetna - Social Network Web Application 2024 - 2025

Personal Project

- Shipped full-stack Django app with secure email authentication and PostgreSQL backend for **1000+** users
- Implemented **6** features: likes, comments, friends, messaging, search, alerts, and deployed to Heroku with **99.5%** uptime

REVI - AI Pull Request Intelligence Platform 2026

Personal Project

- Architected full-stack AI platform for GitHub pull request review with LangChain/LangGraph multi-agent analysis for security, quality, performance, and architecture
- Developed Flask backend with GitHub OAuth, webhook HMAC verification, JWT auth, SQLAlchemy persistence, token refresh, CORS/.env hardening, PR intelligence APIs, and React/TypeScript dashboard with protected routes

SKILLS

Languages	Java, Python, TypeScript, JavaScript, SQL, HTML, CSS
Frameworks	NestJS, FastAPI, Django, React, Spring Boot
Databases	MySQL, PostgreSQL, SQLite
ORMs	TypeORM, SQLAlchemy
AI/ML	OpenCV, Tesseract, Ollama, Llama, spaCy, scikit-learn, TensorFlow, LangChain, LangGraph
Architecture	REST API, API Design, System Design, JWT, RBAC, WebSocket, Microservices, Agile
Tools	Git, GitHub, Docker, CI/CD, Jest, Maven, Testing, Deployment

EDUCATION

Engineering Cycle - Software Engineering - Faculty of Sciences of Bizerte | 2025 - Present

Integrated Preparatory Cycle - Faculty of Sciences of Bizerte | 2023 - 2025 | Ranked **4th** / **80**

CERTIFICATIONS

DataCamp Data Scientist Certificate
DataCamp Data Scientist Associate
DataCamp Data Analyst Associate

LANGUAGES

Arabic (Native) - French (Fluent) - English (Fluent)