

Omar Jabloun

Software Engineer

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Experience

Software Engineer (Freelance)

Dec. 2024 – Present

Palette AI

Morocco

- Developed a microservice-based architecture using **WhatsApp API**, **Nest.js**, and **FastAPI** for real-time customer interactions, boosting response efficiency by 35%.
- Built an agent-based system with **LangChain** and **LLMs (OpenAI)** for intent recognition, sentiment analysis, and retrieval-augmented generation (RAG) powered by **Milvus/Zilliz**.
- Containerized and deployed services on **AWS EC2**, reducing deployment times by 40% via **CI/CD pipelines** using **GitHub Actions**.
- Stack:** **Next.js**, **Nest.js**, **FastAPI**, **LangChain**, **LLMs**, **Milvus/Zilliz**, **AWS**, **Docker**, **GitHub Actions**

Software Engineer (Working Student - Intern)

Jan. 2024 – Nov. 2024

AS Solutions

France

- Led backend development for 5+ insurance platforms (premium calculations, **payment processing**), increasing client subscriptions by 60%.
- Engineered a custom **pricing engine** to enable non-developers to configure pricing logic, cutting product development time by 80%.
- Stack:** **Express**, **Prisma**, **PostgreSQL**, **tRPC**, **Docker**, **Azure**; **Methodology:** **Agile/Scrum**, **Azure DevOps**

Software Engineer (Working Student - Intern)

Nov. 2022 – Nov. 2023

GoMyCode Central Team

Tunisia

- Spearheaded the design and implementation of a **Talent Acquisition platform**, reducing hiring time by 30%, 100+ assessments weekly.
- Integrated automated assessments, enhancing processing efficiency by 50% and improving overall candidate quality.
- Managed and optimized **Azure-based backend** for high performance and scalability.
- Stack:** **.NET 6**, **C#**, **Neo4j**, **Azure DevOps**, **Clean Architecture**; **Methodology:** **Agile/Scrum**, **Jira**

Education

Master of Science in Software Engineering

Sep. 2020 – Oct. 2025 (Expected)

National Institute of Applied Science and Technology (INSAT)

Tunis, Tunisia

Relevant Coursework: Data Structures & Algorithms, OOP, Design Patterns, Distributed Systems, AI/ML, Deep Learning, DevOps, Web Frameworks (.NET/Angular/NestJS)

Academic Projects

Social Media-Based Mental Health Disorder Detection

2024

INSAT - Final Year Project

- Trained a multi-label classifier using **CNN**, **BiLSTM**, and fine-tuned **BERT/RoBERTa**, achieving 94% accuracy in detecting disorders (depression, anxiety, ADHD, BPD) from Reddit data.

Distributed Big Data Processing

2024

INSAT - Big Data Project

- Implemented a distributed pipeline using **Apache Kafka**, **Airflow**, **Hadoop**, and **Spark** for real-time and batch processing of customer purchase data, visualized via **Grafana** dashboards.

Neo4j OGM for .NET

2023

Open-Source Project – GitHub

- Developed a lightweight **Object Graph Mapper (OGM)** for **.NET** to simplify **Cypher query** execution and **record mapping** with **Neo4j**.
- Contributed to the open-source community by providing a tool that streamlines database interactions for **.NET** developers.

Skills & Interests

Languages: C/C++, Go, C#, Java, Python, JavaScript/TypeScript

DevOps: Git, Docker, Kubernetes, Azure, AWS, Kibana, Grafana

Technologies: .NET, Express, SpringBoot, Nest.js, GraphQL, tRPC

Agile: Scrum, Jira, Azure DevOps

Databases: SQL, Neo4j (Certified), Elasticsearch, MongoDB

Languages: Arabic (Native), English (Fluent), French (Fluent)

AI/ML: Deep Learning, NLP, BERT, RoBERTa, LangChain, LLM

Interests: Tennis, Volleyball, Photography, Chess, Spearfishing

Achievements

- Presidential Prize:** Ranked 1st nationwide in the National Computer Science Baccalaureate exam.
- 1st Prize, E-Health Valley Hackathon:** Built a solution to enhance medicine distribution in Tunisia, potentially reducing shortages by 60%.
- 1st Prize, Upside Education Hackathon:** Created a Flask-based quiz generator from course content, cutting assessment creation time by 50%.
- 6th Place, TCPC:** Demonstrated strong problem-solving under time pressure among Tunisian collegiate teams.

Extracurricular Involvement

Chess Enthusiasts INSAT (Founding Member, Treasurer)

Sep. 2021 – Sep. 2022

Co-organized and secured sponsorships for 5 chess tournaments adhering to international standards.

INSAT Press (Director of Photography)

Sep. 2021 – Sep. 2022

Led a team of 10+ photographers covering 30+ university events for Tunisia's first university press club.