

#### **CONTACT**

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in Anouar Ben Moussa

github.com/anouar-bm

• Marrakech, Morocco

Mobility: national and international

#### **SKILLS**

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

AI/ML: Deep Learning, LLM, RAG,

LangChain, LangGraph, MCP

Workflow Automation: n8n

Backend: FastAPI, Django, Flask, Spring

Boot, Node.js, RESTful APIs

Frontend: React, Next.js, React Native,

HTML5, Tailwind CSS

Cloud & DevOps: Docker, Kubernetes,

Azure (DevOps, Pipelines), CI/CD, Linux

**Databases:** PostgreSQL, MySQL,

MongoDB, SQLite, Oracle, SQL Server

Big Data & Streaming: Hadoop, ETL,

**Data Pipelines** 

Architecture: Microservices, MVC, Clean

Architecture, Design Patterns

Testing & Tools: Git, Pytest, Jest, Playwright, Postman, Agile/Scrum,

Unit/API/UI Testing

Soft Skills: Teamwork, System Design,

Problem Solving, Technical Leadership

## **LANGUAGES**

• Arabic: Native • English: Fluent

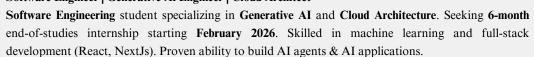
• French: Intermediate

#### **INTERESTS**

- Chess
- Taekwondo
- · Volunteering (Honorary Member, Moroccan Road Safety Organization)

# **BEN MOUSSA Anouar**





#### **EDUCATION**

# Moroccan School of Engineering Sciences (EMSI), Marrakech

- Master in Artificial Intelligence IA2 (University Côte d'Azur, 2025 2026)
- Engineering Cycle, Computer Science & Networks MIAGE option (2024–2026, present)
- Integrated Preparatory Cycle, Computer Science & Networks (2021 2023)

High School Rahali Elfarouk, El Attaouia (2018 – 2021)

International Baccalaureate, Physical Sciences track

#### PROFESSIONAL EXPERIENCE

Machine Learning Intern — Al Akhawayn University, Ifrane | July 2025 – September 2025 Project: Predicting student dropout risk using Neural ODE on time series data

- Designed Neural ODE predictor hitting 86.23% F1-score with ETL and stratified splits
- Optimized Optuna tuning (34 trials); evaluated RK4 / DOPRI5 / DOPRI8 trade-offs
- Implemented k-fold eval (AUROC, F1, PR, log loss); derived SHAP insights
- Built end-to-end ML pipeline and deployed MCP server for model access
- Tech: PyTorch, TorchODE, Optuna, SHAP, scikit-learn, Streamlit, FASTMCP

Generative AI Intern — LPRI (EMSI), Casablanca | July 2024 – September 2024

## Project: Developing a multimodal LLM to preserve Marrakech's cultural heritage

- Developed a RAG pipeline with automated embeddings (LangChain + ChromaDB)
- Built LLM-as-judge QA system for automated RAG evaluation and quality validation
- Implemented a multilingual translation module using Facebook NLLB and Langdetect
- Integrated Ollama LLM API into a FastAPI backend for retrieval-based search
- Tech: LangChain, Ollama LLM, ChromaDB, FastAPI, SQLite, Langdetect.

Software Developer Intern — Launchpad, Marrakech | June 2024 – August 2024

## Project: Development of a multi-tenant CRM application for car rental companies

- Designed front & back logic in Visily + interface for client / contract flows
- Generated and rendered client / contract PDFs with React-PDF; deployed on Vercel

• Developed multi-tenant CRM via Strapi REST APIs for client / contract modules

• Tech: Next.js, Strapi, React-PDF, Visily, Vercel, Node.js

#### ACADEMIC PROJECTS

- Pharmacy Stock Management System: enterprise-grade web and mobile inventory system with multi-tenant architecture, expired product management, deployed on Azure AKS with auto pipelines. Tech: React, Node.js, React Native, Azure AKS, Kubernetes, CI/CD, Docker
- Banking Desktop Application Secure financial desktop application with MVC architecture, transaction management, and SQL agent chatbot for query processing. Tech: Java, JavaFX, Groq API, SQL, Unit Testing, MVC Architecture

# **Hackathon Experience**

- · Lablab.ai AI Prompt Optimizer: Streamlit app with Docker deployment, MCP integration
- AUI SmartBite: ML pipeline with PyTorch, Gradio deployment, Computer Vision APIs
- Cursor Community Job Matching: Next.js, MongoDB Atlas, Vector Search, LangChain

#### **CERTIFICATIONS**

- 5-Day Generative AI Intensive Kaggle & Google
- OCI 2025 Certified Generative AI Professional ORACLE
- Model Context Protocol: Advanced Topics Anthropic