MOHAMAD ELOUZEIR

AI & Software Development

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AI ENGINEERING EXPERIENCE

Artificial Intelligence Engineer Intern
FIKRA Systems (in collaboration with SysDICE)
09/2026 – Present | Remote

- Built a Python semantic search system for SysML models using Sentence Transformers and Qdrant.
- Implemented incremental, interruption-safe updates to avoid unnecessary embedding computation during change-aware ingestion.
- Validated search performance and index correctness across 60 benchmark runs, with experiment reporting in MLflow.

AI Business Analyst Intern
maids.cc
06/2026 – 07/2026 | Beirut, Lebanon – Hybrid

- Iteratively evaluated AI chatbot responses and improved prompts and workflows to address quality and business-usefulness issues.
- Developed Streamlit dashboards using Python and SQL to surface performance patterns and operational insights to management.
- Tested n8n-based AI workflows and documented evaluation results, issues, and improvement recommendations.

AI / Full-Stack Developer
Freelance
2025 – Present | Remote

- Developing an end-to-end mobile fitness application, spanning requirements, architecture, implementation, testing, and deployment.
- Built Python FastAPI services and PostgreSQL data models for application logic and external integrations.
- Integrated LLM-powered workflows for user analysis and personalized recommendations alongside health and fitness data APIs.

Teaching Assistant
American University of Beirut (AUB)
2024 – 05/2026 | Beirut, Lebanon

- Supported programming labs and AI Ethics coursework through concept explanation, assignment evaluation, and structured student feedback.

IT Support Assistant
American University of Beirut (AUB)
2024 – Present | Beirut, Lebanon

- Prepared and imaged laptops for a university-wide Windows upgrade; tracked device allocation in Excel and resolved faculty/staff technical issues.

Web Developer
Houmani Construction Equipment
2023 – 2025 | Beirut, Lebanon

- Developed and maintained responsive company websites, translating business requirements into working web solutions.

Data Collection Assistant
Infopro
2023 – 2024 | Lebanon

- Collected structured survey data through respondent interviews with attention to accuracy and confidentiality.

EDUCATION

Master of Science in Computer Science (M.Sc.)
American University of Beirut (AUB)
2024 – Present | Beirut, Lebanon
GPA: 3.71 / 4.00
Thesis: Generating SPARQL Queries from Natural Language using LLMs
Relevant Coursework: Deep Learning (practical model assignments)

Bachelor of Science in Computer Science (B.Sc.)
Beirut Arab University
2021 – 2024 | Beirut, Lebanon
GPA: 3.58 / 4.00

TECHNICAL SKILLS

AI & Retrieval
LLMs | RAG | Sentence Transformers | Qdrant | Semantic Search | AI Evaluation

Programming & Backend
Python | SQL | FastAPI | PostgreSQL | REST APIs

Tools & Workflows
MLflow | Streamlit | n8n | Git/GitHub | API Integration

PROJECTS & RESEARCH

Published Paper – LLMs & Knowledge Graphs
Elouzeir et al. (2026), JIDMIS. Built a domain ontology and knowledge graph; evaluated graph-grounded GPT and Rasa chatbot approaches.

Master's Thesis – NL2SPARQL with LLMs
Developing and evaluating LLM and retrieval-augmented methods for SPARQL generation and query correctness.

CERTIFICATIONS

Fundamentals of Deep Learning
NVIDIA

AI-Assisted Coding
American University of Beirut

LANGUAGES

Arabic – Native
English – Fluent
French – Fluent
Spanish – Beginner