

MARC MAZRAANY

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EDUCATION

Lebanese American University, B.E. in Computer Engineering

Sep 2022 – May 2026

- Active member of LAU Software Engineering Club, IEEE Artificial Intelligence, and IEEE Logistics and Automation Club.

PROFESSIONAL EXPERIENCE

LAU - Graduate Studies Research and Development (GSR) | Dr. Samer Saab – Dean of GSR

AI Engineer – Part Time

Dec 2025 – May 2026

- Architected a LangGraph LLM workflow and optimized prompt structure and context windows to optimize token usage.
- Collaborated closely with backend engineers to integrate AI workflows into a FastAPI production stack, aligning LLM state, APIs, persistence layers, and frontend consumption.
- Implemented AI evaluation techniques to assess clinical safety, response correctness, hallucination risk, and question relevance, ensuring medically reliable and trustworthy AI behavior.
- Pitched and demonstrated the AI-powered MVP to executive stakeholders, including the President of LAU, clearly communicating technical value, clinical impact, and product vision.

Inmind.ai, Mkalles-Lebanon

ML & Computer Vision Engineer – Part Time

Nov 2025 – May 2026

- Engineered an end-to-end license plate OCR pipeline to production, achieving 10% accuracy increase over the prior system.
- Conducted exploratory data analysis and authored a synthetic data generation report to address dataset gaps.
- Led the full ML lifecycle (data strategy, training, multi-stage evaluation), delivering a client-ready solution independently.

AI & Machine Learning Intern

Jul 2025 – Aug 2025

- Implemented and optimized machine learning pipelines, including data preprocessing, augmentation, hyperparameter tuning, and model evaluation using metrics such as F1-score, Precision and Recall.
- Developed and fine-tuned deep learning models for computer vision and NLP applications, including image classification, object detection, and text summarization, utilizing frameworks such as PyTorch with architectures like YOLOv5 and BERT
- Built and deployed AI agent systems using LangGraph and Google Agent Development Kit (ADK), integrating multi-step reasoning, retrieval-augmented generation (RAG), and tool orchestration through MCP.

INDEVCO, Zouk-Lebanon

Computer Engineering Intern

Jun 2025

- Conducted cross-subsidiary data analysis using Qlik Sense, transforming raw data from 100+ sites across 15+ countries into actionable insights for senior management, directly supporting strategic and financial decision-making.
- Designed and implemented customized dashboards and automated workflows in Microsoft Dynamics AX, improving operational efficiency, reducing error rates, and enabling Finance and Sales Managers to monitor KPIs in real time.

PERSONAL PROJECTS

ECG based Hypoglycemia Detection – Deep Learning

Nov 2025

- Developed a deep learning-based hypoglycemia detection system from ECG time-series data, addressing severe class imbalance using architectures including autoencoders, CNNs, LSTMs, and attention mechanisms.

Multi-Agent Strategy & Analytics Stack – Generative AI

Aug 2025

- Engineered a multi-agent analytics stack by integrating ADK and LangGraph through the A2A protocol, enabling seamless collaboration across agents and exposing shared tools (RAG, SQL toolkit, web search) via a unified MCP server.
- Developed and evaluated a custom Retrieval-Augmented Generation (RAG).

EMG-Based Hand Gesture Recognition – Machine Learning

Mar 2025 – Apr 2025

- Performed data preprocessing, feature engineering, and dimensionality reduction for EMG signal data, then trained and optimized machine learning models using cross-validation to evaluate performance and generalization.

LEADERSHIP EXPERIENCE

LAU Case Competition (Largest National Case Competition).

Lead Consultant

Sep 2025 – Present

- Lead a team of 30+ students, across 4 different cross-functional entities, organizing the largest case competition in M.E.
- Built on established partnerships with large firms (such as Deloitte, EY, and Leo Burnett) while driving new strategic initiatives to expand engagement and enhance consultant training resources for upcoming cohorts.

Participant – Best Team Award (1/100 Teams)

Feb 2024 – Jun 2024

- Collaborated with a team of three undergraduate students to solve complex and competitive consulting cases.

180 Degrees Consulting – Team Leader & Pro Bono Consultant

Feb 2024 – Jun 2025

- Led a team of 5 student consultants delivering strategic fundraising and marketing solutions to Lebanese NGO MySchoolPulse, aligning its mission with scalable long-term growth opportunities.

SKILLS & LANGUAGES

Hard Skills: Java, Python, C++, Pytorch, ML, HTML, CSS, JS, Scala, SQL, React, C#, Unity, Assembly, Docker.

Soft Skills: Problem solving, analytical thinking, time management, communication, public speaking, and teamwork.

Languages: English(C2), Arabic (Native), French(C1).