

Jawad Marji

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EDUCATION

American University of Beirut (AUB), Electrical and Computer Engineering

Sep 2023 - present

- **GPA: 3.95/4.0**, consistently nominated on the Dean's Honors
- Awarded 30% Merit Scholarship with early admission in recognition of outstanding academic performance.
- Core Areas: Software and AI Engineering, MLOps, Data Engineering, Computer Vision, Control Systems

PROFESSIONAL EXPERIENCE

Maids.cc – AI & Tech, AI Technical Analyst (Full-Time)

May 2025 – Jan 2026

- Built automated monitoring systems and redesigned AI architecture, reducing cost by 30% through caching optimization.
- Designed and deployed chatbots on n8n, increasing response speed and accuracy, reaching a handle ratio above 85%.
- Implemented automated chatbot deployment systems, reducing human error and accelerating deployment timelines.
- Built a prompt-optimization pipeline, benchmarking outputs against Golden Dataset to improve LLM reliability.

AUB Vision and Robotics Lab, Research Assistant

Jan 2025 – May 2025

- Contributed to Digital Twins research by developing solutions for simulation and automation using 6D pose estimation.
- Implemented an automated pipeline to generate 50K+ synthetic images with reduced processing time.
- Trained a neural network for 6D pose estimation to support scalable deployment in the Digital Twins project.

Amazon Industry Program Competition, Software Development Apprenticeship

May 2024 – Sep 2024

- Led a team of 4 to design Trafero, a digital solution for Lebanon's public transportation sector management.
- Guided backend and database development with FastAPI and PostgreSQL for secure, fast transactions.
- Collaborated with Amazon professionals to enhance system architecture, functionality, and UX.

PROJECTS

AI Engineering, RetailVision

Jan 2026 – present

- Designed a retail analytics platform using a modular microservices pipeline (5 IEPs + EEP) with AWS GPU-accelerated inference.
- Architected a multi-camera tracking pipeline combining YOLO, ByteTrack, and OSNet ReID to achieve cross-camera identity.
- Implemented a near-real-time alert system and a batch analytics pipeline, augmented by an agentic LLM recommendation engine.
- Built an MLOps lifecycle for ReID fine-tuning with automatic data collection, MLflow tracking, and Prometheus-triggered rollback.
- Designed Grafana dashboards covering latency and error rates, with a CI/CD pipeline and auto-rollback on E2E test failure.

Machine Learning, Jetson Orin VLM Navigation System

Sep 2025 – Dec 2025

- Developed an assistive navigation system for visually impaired users, enabling reliable guidance in uncertain environments.
- Implemented VLM-based perception and navigation pipeline on NVIDIA Jetson Orin for real-time scene understanding.
- Optimized inference pipeline to run efficiently on the GPU, leveraging hardware acceleration and parallel processing.
- Achieved end-to-end real-time performance with less than 5 seconds response latency.

Control Systems, Modeling and Control of a 1-DOF Copter

Sep 2025 – Dec 2025

- Developed a full model analysis for a 1-DOF copter system using mathematical modeling and system identification.
- Developed and tested controllers, achieving stable trajectory tracking validated through simulation and experimentation.

EXTRACURRICULAR EXPERIENCE

AUB Robotics Club, Events Officer → Treasurer

Sep 2024 – present

- Directed budgeting and financial planning to optimize resources, ensuring sustainability of 15+ events.
- Mentored 50+ students through lectures and workshops, improving their problem-solving skills.

AI Journey, Founding Member

Sep 2024 – present

- Delivered lectures on AI and ML fundamentals to 50+ students.
- Organized technical talks and networking events with industry experts from OpenAI and IEEE.

SKILLS & PERSONAL

Certificates: Machine Learning Specialization, Amazon Mentorship Program, Amazon Product Management Bootcamp

Languages: English (fluent), French (fluent), Arabic (native)

Skills: Leadership, Problem Solving, Analytical Thinking, Project Management, Research.

Software & Tools: C++, Python, SQL, Linux, Docker, Kubernetes, Prometheus, Grafana, MLflow, GIT, n8n, MATLAB, Arduino