

LANA SALEM

Beirut, Lebanon

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PROFILE

Computer Science graduate from the American University of Beirut with hands-on experience in full-stack development, data, and AI-powered applications. Adaptable and curious, with a strong interest in learning new technologies, solving technical problems, and contributing to products that deliver real user value.

EDUCATION

From 08/2022 to 05/2026	American University of Beirut Bachelor in Computer Science Dean's Honor List – GPA 3.56/4.0 Relevant Courses : Software Construction, Algorithms and Data Structures, Machine Learning, Operating Systems, Cybersecurity, Database Systems	Beirut, Lebanon
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EXPERIENCE

From 01/2026 to 05/2026	American University of Beirut Position Held: Web & Communications Assistant, Dean's Office (FAS) - Maintained and updated departmental websites using SharePoint and WordPress - Supported digital content and communication workflows across faculty departments	Beirut, Lebanon
From 09/2025 to 05/2026	American University of Beirut Position Held: Administrative Assistant, Computer Science Department - Managed records for 55+ graduate students and processed monthly payments - Handled department correspondence and maintained organized filing systems	Beirut, Lebanon
From 07/2025 to 08/2025	Dar Al Handasah Position Held: Computer Engineering Intern - Built a conversational data analysis tool using Google Gemini API to translate natural language into Python/Pandas queries - Performed data analysis with Python and created Power BI dashboards; designed relational database schemas - Configured Active Directory, deployed VMs using VMware ESXi, and completed networking labs	Beirut, Lebanon
09/2024	American University of Beirut Position Held: Lab Assistant, CMPS 203 - Programming for Everyone Assisted 15 students in Python labs, providing guidance on core programming concepts	Beirut, Lebanon

PROJECTS

- Full-Stack AI-Powered Ordering Platform | React, FastAPI, Express, MongoDB, Redis, WebSockets, Gemini**
- Built a full-stack ordering platform with real-time tracking and an AI assistant supporting text and voice orders
 - Designed end-to-end user experience across customer flow, AI interaction, and admin dashboard
 - Integrated Gemini and Google Speech-to-Text for voice ordering; implemented Redis-based session handling and recommendation logic
- Cybersecurity Attack/Defense Lab | Linux, Apache, MySQL, Grafana, Suricata**
- Simulated a 3-VM attack/defense environment, identifying vulnerabilities (SQL injection, brute-force SSH, DoS)
 - Implemented layered security measures (firewalls, Fail2Ban, SSH hardening) and validated fixes
 - Built monitoring dashboards and alerts to detect anomalies in real time
- License Plate Detection Multi-Model Evaluation | Python, PyTorch**
- Benchmarked object detection models (YOLOv8, Faster R-CNN, RetinaNet) using standardized metrics
 - Analyzed trade-offs across accuracy, speed, and model behavior
 - Extended pipeline with OCR for end-to-end detection and text extraction

SKILLS

Languages: Fluent in English, Arabic and French

Proficient: Python, JavaScript, SQL, HTML/CSS

Familiar with: C, C++, Java, C#

Software/Tools: React, Node.js, FastAPI, MongoDB, PyTorch, Git, Power BI, VMware ESXi, Unity

Soft Skills: Communication, Critical Thinking, Problem Solving, Teamwork, Time Management