

AHMAD AL SOUS

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Education

Lebanese American University (LAU)
B.S. Computer Science, Honors Program
GPA: 3.52

Beirut
Expected Jun 2027

Projects

TimeCapsuleDB — Full-Stack Admin Dashboard—

Tech: MySQL, Node.js, Express, REST API, Vite, JavaScript, HTML/CSS, Git

- Built a full-stack admin dashboard with a Vite + vanilla JS frontend consuming an Express REST API connected to a relational MySQL schema (10+ tables), enforcing referential integrity via foreign keys.
- Implemented capsule listing/detail views and procedure-driven history via CALL GetCapsuleHistory(?), returning JSON for UI rendering.
- Built a metadata-driven insert workflow: fetches column metadata from INFORMATION_SCHEMA, generates forms dynamically, and safely inserts into key tables using parameterized queries.
- Implemented 10+ API endpoints for capsules, reports, metadata, and inserts. Developed a Data Explorer to browse any database table with pagination (LIMIT/OFFSET) and dynamic table rendering.
- Deployed the frontend build via SFTP/SSH with a simple rollback strategy (versioned uploads).
- Implemented responsive images (srcset, sizes) with lazy loading and audited performance using Lighthouse; documented results in README.

Water Security Decision Support (Linear Regression Evaluation Tool) —

Tech: Python, NumPy, scikit-learn, matplotlib

- Built a linear regression evaluation pipeline using Python, NumPy, and scikit-learn to predict water-related metrics and quantify intervention impact by comparing expected vs observed outcomes.
- Implemented time-series visualizations using matplotlib to enable clear comparison of baseline, predicted, and measured trends for decision-making.
- Integrated the regression module into a larger decision-support system to support water-security monitoring and policy evaluation.
- Designed modular training, prediction, and evaluation components to ensure scalability across multiple data sources

Experience

Student Employee — Light & Sound Operator (Theater)

Lebanese American University (LAU)

- Set up and operated live event equipment including Avolites Quartz (lighting console) and Midas M32 (sound mixer) across 5–6 events, including a high-visibility FinTech event.
- Troubleshoot live sound/lighting issues under time pressure to minimize downtime and maintain event quality.
- Supported front-of-house ushering and audience flow for multiple events.

Beirut
Sep 2025 – Present

Student Employee — Alumni Relations Office

Lebanese American University (LAU)

- Supported logistics, ushering, and outreach for 3 alumni events, including Alumni Dinner 2025, helping ensure smooth attendee flow and on-time execution.
- Maintained alumni contact information and event lists using Excel/Google Sheets, performing accurate data entry and updates for outreach coordination.
- Assisted with administrative support and coordination tasks to improve communication with alumni

Beirut
Jun 2025 - Sep 2025

Technical Skills

Languages: Java, Python, C, SQL (MySQL), JavaScript

Frontend/ Backend: HTML5, CSS3, JavaScript, Fetch API, Node.js, Express, REST APIs, JSON

Web Performance: responsive images (srcset, sizes), lazy loading, modern formats (WebP/AVIF), Lighthouse

Tools: Git/GitHub, Linux, VS Code, MySQL Workbench

Deployment: SFTP/SSH, environment variables (.env)