

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

BuzzMate — Full-Stack Dating Web App—

Tech: MySQL, NestJS, JS, REST API, HTML/CSS, Google Calendar API, Web Sockets ,Git

- Led a 5-member team across the full SDLC — requirements engineering, system architecture design, and test case development following software engineering best practices (IEEE) — managing task delegation and collaborative code review via GitHub & OpenProject.
- Engineered a scalable NestJS+MySQL application supporting 1,000 concurrent users, integrating the Google Calendar API for real-time availability syncing and automated date scheduling & messaging between users via WebSockets.
- Integrated AWS S3 for profile picture storage, streaming image buffers to cloud object storage and persisting secure URLs to the database, decoupling media assets from the application server.

Pedagogical Validity of LLM-Generated Feedback —ML Research

Tech: Python, NumPy, scikit-learn, matplotlib

- Designed a five-dimensional pedagogical validity rubric and annotated LLM-generated feedback across a multilingual dataset of 3,041 CS student responses produced by three frontier models (DeepSeek, Qwen, Gemini).
- Built an ML classification pipeline using Sentence-BERT embeddings with Logistic Regression, SVM, and Random Forest classifiers, validated using Krippendorff's α for inter-rater reliability.
- Co-authored a research paper proposing an automated framework for evaluating AI-generated formative feedback at the intersection of NLP, education, and ML evaluation.

Water Security Decision Support—Linear Regression Evaluation Tool

Tech: Python, NumPy, scikit-learn, matplotlib

- Built a modular regression evaluation pipeline (NumPy, scikit-learn) to predict water-security metrics and quantify real-world intervention impact by statistically comparing expected versus observed outcomes across data sources.
- Delivered time-series visualizations (matplotlib) and integrated the module into a production decision-support system used for water-security monitoring and evidence-based policy evaluation in Lebanon.

Experience

Student Employee — Light & Sound Operator (Theater)

Lebanese American University (LAU)

Beirut

- 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.

Sep 2025 – Present

Student Employee — Alumni Relations

Lebanese American University (LAU)

Beirut

- Supported logistics, ushering, and outreach for 3 alumni events, including Alumni Dinner 2025.
- Maintained alumni contact information and event lists using Excel/Google Sheets, performing accurate data entry and updates for outreach coordination. Including assisting with administrative support.

Jun 2025 - Sep 2025

Private Tutor — Math & SAT

- Tutored 5 students in Math and SAT Quant; created practice sets and weekly study plans

Beirut

Jun 2024 – Present

Technical Skills

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

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

Tools: Git/GitHub, Linux, VS Code, MySQL Workbench; Deployment: SFTP/SSH, environment variables (.env)

Additional activities: LCPC 2025(Lebanese Computer Programming Competition) Proctor