

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 — 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.
- Produced end-to-end technical documentation including functional/non-functional requirements specifications and UML system models following software engineering best practices (IEEE)

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 in Python (NumPy, scikit-learn) to predict water-security metrics and quantify real-world intervention impact by statistically comparing expected versus observed outcomes across multiple 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, 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. 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