

Leen Farhat

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Education

Bachelor of Science in Computer Science

American University of Beirut (AUB)

Sep 2023 – May 2026

Experience

Full-Stack Developer Intern — Early-Stage Startup (Remote)

2025 – 2026

- Contributed to the end-to-end development of a real-world full-stack production system.
- Owned frontend features and integrated them with backend services across the full delivery lifecycle.
- Worked from requirements and design through to functional deployment.

Full-Stack Developer Intern — Vanrise (Remote)

2026

- Completed a structured full-stack training program covering JavaScript, HTML5, CSS3, Bootstrap, AngularJS, C#, and MSSQL.
- Applied layered software architecture principles through hands-on assignments and a capstone final project.

BI Engineer Participant — Amazon Industry Program, AUB × Amazon Women in Engineering

2026 (Ongoing)

- Selected for the 5th edition of this competitive program run in collaboration with AUB MSFEA and Amazon Women in Engineering (AWE).
- Participating in the Business Intelligence Engineering track, focused on bridging data analysis with strategic business decision-making.
- Receiving direct mentorship from Amazon engineers through exclusive workshops and guided hands-on BI projects.

Projects

MoodMate – Mental Health AI Assistant App

- Built a full-stack Android app integrating mood tracking, task management, and real-time emotion analysis.
- Developed a Kotlin Android client and a FastAPI backend with voice transcription using OpenAI Whisper and emotion detection using a fine-tuned BERT model.
- Implemented end-to-end audio processing pipeline, REST API design, and deployment-ready backend architecture handling large ML models.

AI ResilienceLearn – Capstone Project

- Building a machine learning system to predict academic risk in crisis environments using Python and scikit-learn.
- Integrating SHAP-based Explainable AI to deliver transparent and personalized predictive insights to educators and students.

License Plate Detection – Machine Learning Project

- Trained object detection models on a Kaggle dataset to detect and localize car license plates in real-world imagery.
- Applied transfer learning with YOLO and Faster R-CNN architectures; evaluated using mean Average Precision (mAP).

Path2Uni – University Exploration Platform

- Built a full-stack web platform helping Lebanese students discover and apply to universities across Lebanon.
- Used Node.js, Express.js, MongoDB, and JWT for authentication; implemented user, mentor, and admin roles; deployed on Render.

Business Analytics – Stories Café Data Project

- Engineered branch-level business features from raw POS data — including annual sales, margin, beverage/food share, seasonality indexes, and anomaly counts — then trained a Ridge Regression model ($R^2 = 0.78$, LOOCV RMSE = 26.10) to predict each branch's January YoY run-rate performance, outperforming the fold-mean baseline (RMSE = 32.42).
- Segmented branches into 5 archetypes (e.g. Commuter Grab-and-Go, Premium Beverage-Focused) using K-means clustering; built a cosine-similarity product affinity model to generate branch-level bundle offers with low/base/high revenue scenarios, prioritizing at-risk branches via a rule-based decline and sales-intensity score.

Airline Management System (MySQL)

- Designed a relational database schema with ER modeling and implemented advanced SQL queries for an airline management use case.

Technical Skills

Languages: Python, Java, JavaScript, Kotlin, C#, SQL

Web & APIs: Node.js, Express.js, FastAPI, MongoDB, MSSQL, HTML5, CSS3, Bootstrap, AngularJS, REST APIs

AI / ML: scikit-learn, BERT (HuggingFace), YOLO, Faster R-CNN, Whisper, SHAP, Transfer Learning, K-Means

Mobile: Android Studio, Kotlin, MVVM, Room Database, LiveData, XML Layouts

Tools: GitHub, VS Code, Jira, MySQL Workbench, Render

Soft Skills

Teamwork | Communication | Leadership | Creative Thinking | Time Management