

LEEN ABDALLAH

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SUMMARY

Backend-focused CSE student building production APIs in FastAPI and Spring Boot. Strong at owning features end-to-end, designing relational schemas, and collaborating in engineering teams.

EDUCATION

BE in Computer Science and Engineering

AUB, American University of Beirut

08/23 - Present

- **Coursework:** Machine Learning, Cryptography & Network Security, Data Structures & Algorithms, Design & Analysis of Algorithms, Theory of Computation, Operating Systems, OOP, Software Security.

French Baccalaureate (OIB) - Très Bien (Félicitations du jury)

CPF, Collège Protestant Français - Valedictorian

06/23

French Mathematics Olympiads: 14th overall, 2nd Female

PROFESSIONAL EXPERIENCE

TableMoon

Beirut, LB

Backend Developer

09/25 - 11/25

- Shipped the first production-ready backend for a consumer-facing application, owning features end-to-end.
- Built 60+ API routes across 9 controllers using a layered architecture and relational model (45+ entities); managed schema changes with 19 Alembic migrations.
- Added secure authentication and authorization with JWT, RBAC, and OTP verification, with input validation and consistent error responses.
- Increased reliability with automated testing (40+ pytest tests across 12 files); reduced debugging time by about 30% by introducing structured logging and standardized error responses.
- Maintained OpenAPI/Swagger documentation via Pydantic request/response models and consistent route tagging.

Areeba

Beirut, LB

Backend Intern

01/25 - 03/25

- Built two Java/Spring Boot services, delivering 50 API routes supporting core workflows.
- Set up persistence with PostgreSQL, JPA/Hibernate, and migrations with Flyway; added validation, structured logging, and integration tests using Testcontainers.
- Strengthened service reliability by enforcing consistent validation and exception handling across API routes.

Self-employed/AUB

Beirut, LB

Private Tutor and Student Assistant

09/24 - 11/25

- Tutored 3 CPF & Lycée Élysée high-school students (STEM), improving averages from 12/20 to 18-19/20 within one term.
- Supported 60+ students with Python assignments and exam preparation for *Introduction to Computation and Programming*.

PROJECTS

Multi-Service Banking Platform - Flask, React, PostgreSQL, NeonDB

Developed a multi-service banking application covering authentication, transfers, and audit logging. Designed the relational PostgreSQL schema (10 entities) and owned core business flows end-to-end. Built 43 API routes across 7 controllers, with input validation and consistent error handling.

Library Management System - Spring Boot

Built a 30-route REST API for catalog, users, and borrow/return flows. Managed schema evolution with 5+ Flyway migrations and enforced input validation across endpoints. Integrated Feign-based email notifications and added Testcontainers integration tests.

Online Boutique Platform - Python, Tkinter, SQLite

Built a full-stack desktop application with persistent storage (SQLite) and bcrypt authentication. Combined client/server and peer-to-peer interactions in a hybrid architecture.

SKILLS

Languages:	English, French, Arabic (fluent)
Programming Languages:	Java, Python, SQL, C++, MATLAB, Verilog, Assembly
Frameworks & Tools:	FastAPI, Spring Boot, Flask, PostgreSQL, Alembic, Flyway, Testcontainers, pytest, Git
Concepts:	RESTful API design, auth (JWT/RBAC), relational data modeling

ENGAGEMENT AND CONTRIBUTIONS

Webmaster, IEEE AUB Student Branch (400+ members)

09/25 - Present

Technical Team Member, All Girls Code

05/25 - Present

Web Administrator, AUB Engineering Student Society (600+ members)

03/25 - Present