

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

Backend Developer

Beirut, LB

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

Backend Intern

Beirut, LB

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

Private Tutor and Student Assistant

Beirut, LB

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