

Mostafa Aboraya

Beirut, Lebanon

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Computer Science graduate with experience building backend systems and AI-powered applications using Python and Java. Skilled in REST API development, Spring Boot, SQL, and cloud-ready architectures, with hands-on experience developing LLM-based applications through an AI Backend Engineering internship. Passionate about retrieval systems, agentic AI, and building reliable production-quality software using modern engineering practices.

EDUCATION

Phoenicia University (PU) - Sarafand, Lebanon

October 2022 – February 2026

B.S. in Computer Science

PROFESSIONAL EXPERIENCE

FlyRank AI – Remote

July 2026 - Present

AI Backend Engineering Intern

- Develop backend services for AI-powered applications using Python, REST APIs, and modular software architecture while collaborating with mentors through iterative code reviews and engineering feedback
- Build LLM-powered features including prompt engineering workflows, retrieval-based applications, and production-oriented AI prototypes while emphasizing testing, documentation, and maintainability

Lebanese Welfare Association for the Handicapped – Beirut

June 2025 – September 2025

Software Engineering Intern

- Upgraded production Flutter App from v2.10 to v3.19, resolving breaking API changes and reducing Android 15 crash rates by **45% for 6,400+ users**
- Implemented backend-driven web modules using PHP, MySQL, and REST-style endpoints, enabling access to **3,500+ records**, and **reducing administrative processing time by 35%**
- Collaborated with Developers and Stakeholders to refine requirements, track blockers, and deliver **production-ready** functionality

PROJECTS

AI Fitness Platform | Next.js, TypeScript, Python, PostgreSQL, AI APIs

- Building an **AI-powered fitness platform** featuring secure authentication, personalized workout plans, AI-generated diet recommendations, progress tracking, and real-time push notifications
- Designed modular backend services integrating LLM-powered coaching, personalized recommendation workflows, and **REST APIs** while applying **AI-assisted development** throughout the project lifecycle
- **Leveraged AI tools to accelerate development** while validating functionality through **testing, iterative refinement**, and **continuous feature evaluation**

College ERP System | Java, Spring Boot, MySQL, Docker, React

- Designed and developed scalable RESTful APIs using Java and Spring Boot to support an ERP platform serving **~2,000 students and staff**
- Implemented **Controller–Service–Repository architecture** using **dependency injection** and separation of concerns to improve maintainability
- Containerized backend services with **Docker**, simplifying **deployment** and creating reproducible development environments
- Wrote **unit tests for backend components** and validated API functionality using Postman during development

AWARDS/CERTIFICATIONS

AI Fluency: Framework & Foundations | Anthropic Certification

July 2026

Claude 101 | Anthropic Certification

July 2026

Introduction to Claude Cowork | Anthropic Certification

July 2026

Introduction to Model Context Protocol | Anthropic Certification

July 2026

EXTRACURRICULAR ACTIVITIES

IEEE – PU Student Branch**April 2024 – November 2025***Member***IEEE – PU Student Branch****February 2024 – May 2024***President*

- Elected president of CS society, organized 20+ workshops, and represented students at the faculty level

Computer Science Students' Peer Support– PU**November 2023 – February 2024***Member*

- Tutored 30+ peers on programming fundamentals and algorithms

SKILLS AND INTERESTS

Backend & Frameworks: Java, Spring, Spring Boot, REST APIs, Dependency Injection, Object-Oriented Design, Microservices Architecture**LLMs:** LLM-based solutions, Prompt Engineering, AI-assisted workflows, Agentic systems concepts, Model-driven automation**Data Engineering:** Data ingestion pipelines, data transformation (ETL), preprocessing workflows, structured & unstructured data handling**Database:** SQL, MySQL, Data Modeling, Layered Architecture, Distributed Systems Fundamentals, Event-Driven Design (Kafka – academic)**Cloud & DevOps:** Docker, CI/CD Pipelines, AWS (EC2, S3 – academic & project exposure), Kubernetes