

Fatima Hammoud
hammoudfatima699@gmail.com
81700159_ Beirut, Lebanon



Education

Al Maaref University, Beirut, Lebanon
Bachelor of Science in Computer Science
Graduated: 2026 | CGPA: **3.94 / 4.0**

Work Experience

Web & AI Dev Intern | Ring N Ring (RnB), Dubai, AE **Jun 2025–Aug 2025**

- Built AI-driven recommendation and randomization features using **Angular, Node.js, Express.js, Firebase Firestore**
- Integrated **OpenAI GPT-3.5** for contextual product suggestions; improved performance with **Redis caching**
- Worked in **Agile** environment (Jira, Confluence, Bitbucket); tested APIs with **Postman** and built responsive UI with **TypeScript & RxJS**
- Optimized backend logic and accelerated development using **Cursor (AI editor)**

Backend Dev Intern-Spring Boot Training | Clouds Links **Sep 2025**

- Developed secure RESTful APIs using Spring Boot MVC, Hibernate ORM, Spring Security (JWT, Refresh Token)
- Implemented role-based authentication, database relationships, and service-layer logic following MVC principles.

Senior Capstone Project | Al Maaref University **Sep 2025 – Jan 2026**

- Architected backend for an AI-powered platform integrating personality assessment, exhibitions, and financial aid workflows
- Built Spring Boot APIs with JWT, OAuth2 (Google), BCrypt, and 7-role RBAC; used @Async and thread pools for long-running AI tasks
- Developed ML personality classification using SVM (scikit-learn) to predict Holland Code (RIASEC) types
- Built production-ready AI agents and RAG-based recommendation system using LangChain, LangGraph, ChromaDB, sentence-transformers, DeepSeek LLM
- Built FastAPI microservices for ML inference and AI agents; integrated with Spring Boot via REST
- Designed MySQL schema with Spring Data JPA; ensured transactional integrity for multi-stakeholder workflows
- Added automated testing using JUnit 5 & Mockito (service-layer, authorization, budget & workflow validation)
- Deployed microservices on Railway with CI/CD via GitHub, Railway Volumes, and Firebase Storage.

Technical Skills

Languages: Java, Python, JavaScript, TypeScript, C++, Dart

Frontend: HTML, CSS, Angular, RxJS, Flutter

Backend: Node.js, Express.js, Spring Boot, Hibernate, FastAPI, Uvicorn, REST APIs, JWT, OAuth2, BCrypt

Databases: MySQL, SQL, Firebase Firestore, ChromaDB

AI & ML: RAG, LangChain, LangGraph, Sentence-Transformers, Scikit-learn (SVM), DeepSeek LLM, Gemini

Cloud & DevOps: Firebase (Auth, Firestore, Admin SDK, Storage), Railway, CI/CD (GitHub)

Testing: JUnit 5, Mockito, Unit & Service-Layer Testing

Tools: Git, GitHub, Bitbucket, VS Code, Cursor, Postman, Jira, Confluence

Concepts: OOP, Data Structures, Agile, Microservices Architecture