

Mahdi Farhat

Software Engineer

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PROFESSIONAL SUMMARY

Computer Science graduate (GPA 3.8/4.0) with hands-on full-stack development experience in Java, Spring Boot, Python, and React. Built and containerized production-style applications featuring secure authentication, RESTful APIs, and relational database design. Passionate about backend engineering, clean architecture, and writing maintainable, scalable code.

PROJECTS

Medical Insurance Claims Management System

Technologies: Java, Spring Boot, Spring Security, Spring Data JPA, PostgreSQL, React, Docker, JWT, Git

- **Designed and built a full-stack application** supporting claim submission, review, approval, and rejection workflows with role-based dashboards.
- Engineered **RESTful APIs** using Spring Boot with layered architecture (Controller → Service → Repository) and Dependency Injection, following **SOLID principles**.
- Implemented **secure authentication and authorization** using Spring Security, JWT tokens, and BCrypt password hashing with role-based access control.
- Designed a **normalized PostgreSQL schema** covering Users, Roles, Insurance Policies, Claims, Comments, and Notifications.
- Applied **DTO, Repository, and Service Layer patterns** alongside Global Exception Handling to improve maintainability and testability.
- Built advanced **search, filtering, sorting, and pagination** features for efficient claims retrieval.
- **Containerized** all services (backend, frontend, database) with **Docker Compose**, ensuring consistent dev and deployment environments.

AI-Powered Web Scraper Platform — Senior Capstone Project

Technologies: Python, Selenium, Streamlit, SQLite, OpenAI API

- Built a **JavaScript-rendered page scraper** using Selenium targeting X.com (Twitter), handling dynamic content loading and rate limits.
- Designed a **SQLite database managing 10,000+ records** with automated data-cleaning pipelines to normalize and store scraped content.
- **Integrated the OpenAI API** to enable AI-driven content analysis and sentiment insights on collected posts.
- Developed a **Streamlit dashboard** enabling users to search, filter, and analyze author posts interactively.

EDUCATION

B.Sc. Computer Science | American University of Culture and Education | Beirut, Lebanon

September 2022 – August 2025 **GPA: 3.8 / 4.0**

TECHNICAL SKILLS

- **LeetCode:** Active LeetCode practitioner — 150+ between -easy and medium- problems solved mainly across Arrays, HashMaps, and sets.
- **Frameworks:** Spring Boot, Spring Security, Spring Data JPA, React, Selenium, Streamlit
- **Architecture:** REST APIs, JWT Auth, SOLID Principles, Layered Architecture, DTO & Repository Patterns
- **Languages:** Java, Python, JavaScript, SQL
- **Databases:** PostgreSQL, MySQL, SQLite
- **Tools & DevOps:** Docker, Docker Compose, Git, GitHub, Linux, Jira
- **Methodologies:** Agile / Scrum, Git-based Collaboration, Containerization