Alaa Mohamed

Java Back-End Developer

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Linkedin | **GitHub** | **LeetCode** | **Portfolio**

PROFESSIONAL SUMMARY

Junior Java Back-End Developer with **1+ years** of hands-on experience building secure, scalable RESTful APIs using Spring Boot, Hibernate/JPA, and Spring Security. Passionate about writing clean, maintainable code, eager to contribute to a collaborative team while expanding backend development expertise. Committed to applying best practices to deliver robust and efficient backend solutions.

Skills

Back-End Technologies: Spring Boot, Spring Security, Hibernate/JPA
Languages: Java,Java Script, SQL
Databases: Oracle, MySQL
Tools & Technologies: Git, Maven, Postman, IntelliJ IDEA
Testing: JUnit 5, Mockito
Concepts & Methodologies: RESTful APIs, OOP/SOLID Principles, Design Patterns, Agile

Projects

E-Commerce RESTful API Platform | Link

Spring Boot, Hibernate, Oracle,JUint 5, JWT Authentication

- **Designed 5 core domain** entities with complex JPA relationships optimizing query efficiency.
- Implemented secure access control using **JWT-based authentication and authorization** Applied
- Integrated **Stripe payment gateway** with secure webhook handling for automated order processing
- Implemented **global exception handling** and validation, reducing runtime errors by 40%
- Spring Data **JPA pagination** for high-volume endpoints, improving response time by 60%
- Achieved 80%+ code coverage by developing comprehensive unit tests using JUnit 5 and Mockito

SocialGraph Engine – Secure Social Networking Platform | Link

Spring Boot, Oracle Database, Redis, Spring Security, JPA

- Designed and implemented a normalized relational model with **15+ JPA entities**
- Secured 100% of API endpoints against unauthorized access by integrating stateless **JWT authentication**
- Optimized data flow with **MapStruct and layered architecture**, improving API response times by 30%.
- Collaborated with **AI tools (Claude, Antigravity)** for architecture documentation, and pair programming.

Experience

Java Back-End Developer Trainee | EraaSoft   *Cairo,Egypt | July 2023 - Oct 2024*

- Developed scalable server-side applications using Spring Boot, Hibernate, and RESTful APIs.
- Implemented JWT-based authentication and authorization for secure access control.
- Collaborated within an Agile team environment using Git for version control and code reviews.

Education

Bachelor of Information Technology | New Cairo Technological University
Expected Graduation: 2026
Relevant Coursework: Object-Oriented Programming, Database Systems, Software Engineering

Language

English: Professional Working Proficiency