MALAK ESSAM

Backend Developer

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in malak-essam   ⌗ Malak-Essam

EXPERIENCE

Junior Backend Developer
Softplan

📅 Mar 2025 – Ongoing   ⚲ remote

- Developed RESTful APIs using Spring Boot to support core business features, ensuring data integrity and optimal response times
- Designed relational database schemas and wrote optimized SQL queries using PostgreSQL and Spring Data JPA, improving query performance by implementing proper indexing and query optimization techniques
- Implemented secure authentication and authorization mechanisms using Spring Security and JWT tokens, protecting sensitive API endpoints and managing role-based access control for different user types
- Collaborated with cross-functional teams in Agile sprints to deliver features on schedule, participated in code reviews, and contributed to technical documentation and API specifications

PROJECTS

Real-Time Chat Application with Friend Management System
Personal Project

Backend: Spring Boot, Spring Security, Spring Data JPA, WebSocket (STOMP/SockJS), PostgreSQL, JWT, RabbitMQ
Frontend: Next.js 16, Tailwind CSS
⌗ Backend | ⌗ Frontend

- Architected RESTful API with 15+ endpoints for user management, authentication, and chat operations, ensuring scalable and maintainable code structure
- Implemented real-time bidirectional messaging system using WebSocket (STOMP/SockJS), achieving sub-100ms message latency with support for typing indicators and online presence tracking
- Integrated RabbitMQ message broker for asynchronous notification delivery and offline message queuing, decoupling services and improving system scalability
- Developed comprehensive friend management system with custom Spring Data JPA queries for user search, friend requests, and connection handling with optimized database indexing
- Secured application with Spring Security and JWT-based stateless authentication, implementing token refresh mechanism, role-based authorization, and BCrypt password encryption

EDUCATION

B.Sc. in computer science
Cairo University

📅 Sept 2018 – June 2022

SKILLS

Backend
`Java` `Spring Boot` `Spring Data JPA` `Hibernate` `Spring MVC` `REST APIs` `PostgreSQL` `MySQL` `SQL` `JWT` `Spring Security` `HTTP` `WebSocket` `RabbitMQ`

Frontend
`React` `Next.js` `Tailwind CSS`

Tools & Testing
`Git` `Docker` `Maven` `Postman` `JUnit` `Mockito`

Data Management
`Bean Validation` `Exception Handling` `Transaction Management` `JSON`

Core Concepts
`OOP` `Design Patterns` `SOLID Principles` `API Design` `Microservices`

LANGUAGES

Arabic   ●●●●●

English   ●●●●○