OMAR MAHMOUD

Java Software Engineer

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Objective

As a recent computer science graduate, I am enthusiastic about expanding my expertise in Java EE, Java SE and the Spring framework. With a solid foundation in computer science principles, I am eager to apply my knowledge to develop robust and scalable applications.

EXPERIENCE

Java Backend Web Developer(ERC) 🗓 May 2024 –present

- Developed and maintained a scalable Java backend for a legal request web application, facilitating efficient document management and user interaction.
- Implemented robust features for user authentication, role-based access control (RBAC), and file upload/download functionalities, ensuring secure data handling and access for two distinct user types.
- Leveraged Spring Framework to create RESTful APIs, enabling seamless communication between the frontend and backend, and facilitating future application growth.
- Integrated with a database solution to store and retrieve legal requests, user information, and uploaded files, ensuring data persistence and integrity.

Principles of Banking-EBI(training) 🗓 January 2024 -February 2024

- Understanding of the banking system, its products, and services.
- Proficiency in banking principles.
- Knowledge of the role of technology in the banking sector.
- Eligibility to work in banks and financial technology companies.

Principles of java and spring boot-EBI(training) 🗓 January 2024 -February 2024

- Understanding of Java programming language principles.
- Proficiency in using the Spring Boot framework to build modern web applications.
- Ability to design and develop scalable applications.
- Hands-on experience working on real-world software projects.
- Eligibility to work in large companies.

IT Helpdesk- ISUPPORT-(training) 🗓 January 2023 -February 2023

- I have practical experience in providing helpdesk support, assisting users with technical issues, and ensuring timely resolution of support tickets

SKILLS

Java: OOP, Stream, Thread, Collections, Web servers, Hibernate, APIs, JDBC.

Spring Framework: Boot, Web, Hibernate, REST, APIs.

Front End: HTML5, CSS3, MVC.

Familiar with: Database, MySQL, SQL Server, Postman, Data Structure, Algorithms, Python, Problem-solving, ISTQB Foundation Level.

PROJECT

GoTech (Graduation project)

Developed a dynamic e-commerce website for selling electronic devices, showcasing backend expertise and user-centric design.

• Frontend Development: Built web pages using HTML, CSS, and JavaScript, ensuring a visually appealing and interactive user experience.

• Backend & API: Created a robust backend and API infrastructure to handle user accounts, product listings, sales transactions, and data management.

• Database Design: Developed an Entity-Relationship Diagram (ERD) to effectively structure and manage website data.

• Quality Assurance: Conducted comprehensive testing, identifying and resolving bugs to ensure optimal website performance and reliability.

Employee Management System

Developed a Java-based Employee Management System using JDBC to effectively manage employee data in a MySQL database. Implemented CRUD operations (create, read, update, delete) for employees.

• Creation of new employee records with details like name, gender, birth date, and salary.

• Retrieval of employee information by ID or name.

• Proficient Java programming, including object-oriented concepts, data structures, and algorithms.

• Strong understanding of relational databases (MySQL) and JDBC for database interactions.

• Effective application of the Builder design pattern for improved object creation

• **Tools and Technologies:** Java, MySQL, JDBC, Build tool (Maven) and IDE (Eclipse)

GitHub link

Online Book Store (Java Spring Boot)

Developed a secure and scalable RESTful API for an online book store using Spring Boot, Spring Security, Spring JPA, MySQL, and Java Mail. This project highlights proficiency in the following technologies:

Modern development: Spring Boot framework for rapid application development.

 API security: Spring Security for user authentication and authorization.

Data persistence: Spring JPA for seamless database interaction with MySQL.

Email integration: Java Mail for sending order confirmations or other notifications.

GitHub link

COURSEWORK

Algorithms Analysis and Design cloud camp native 🗓 June 2023

• I mastered efficient search algorithms like linear and binary search, along with sorting algorithms like bubble sort and merge sort.

• I refined my skills in writing clean, readable, and efficient code, optimizing for both time and memory usage

• using programming languages like Python, Java, and C++.

Data Structures Decode cloud camp native 🗓 August 2023

• I learned about different types of data structures such as linked lists, arrays, stacks, and queues.

 • understood how each data structure works and how to use it efficiently.

• using programming languages like Java and C++.

ISTQB Foundation Level Complete Training Nezam 🗓 March 2023

• I grasped the core concepts of software testing, its role in the software development life cycle (SDLC), and the various testing methodologies.

• gained comprehensive knowledge of various testing techniques like black-box and white-box testing, equivalence partitioning, boundary value analysis.

java and spring boot 🗓 January 2024

. Master Java fundamentals: You'll solidify your understanding of core Java concepts like object-oriented programming, data structures, and algorithms.

. Build web applications efficiently: Spring Boot streamlines development, allowing you to create full-stack applications quickly and easily.

. Explore modern web technologies: You'll be exposed to in-demand areas like REST APIs, and database integration.

Core Java Programming 🗓 April 2024

. Understand the fundamentals of Java programming language syntax and semantics. This will equip you with the building blocks to write Java programs.

 . Gain experience in writing Java programs to solve problems. Through hands-on coding exercises, you'll develop your problem-solving skills and apply Java concepts to practical scenarios.

EDUCATION

computer science

Graduate from Modern Academy class of 2021 Computer Science Department. 🗓 10/2017 - 06/2021.

MILITARY STATUS

Complete the service Military