OMAR MAHMOUD
Software Engineer

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OBJECTIVE

As a computer science graduate with a strong foundation in diverse programming languages and frameworks, I am eager to contribute my expertise to your organization. I possess a proven ability to develop robust, scalable software solutions and am committed to staying abreast of emerging technologies. My goal is to leverage my skills and experience to drive innovation and success within your team.

EXPERIENCE

Software Engineer–ERC(Internship) May 2024 –present

- Contributed to the development of a web application named "Legal System" using Java, Spring Boot, Thymeleaf, and MySQL.
- Collaborated with a team to implement features allowing two types of users, normal and legal, to register, log in, upload files, add descriptions, edit, delete, and await approval or rejection from legal users.
- Utilized Apache Tomcat and Apache for deployment and Postman for testing purposes.
- Gained hands-on experience in software development methodologies and practices within a professional environment.

Principles of Banking (EBI) Training January 2024 - February 2024

- Acquired a comprehensive understanding of the banking system, its products, and services.
- Developed proficiency in core banking principles.
- Gained insight into the role of technology in the banking sector.
- Achieved eligibility to work in banks and financial technology companies.

Principles of Java and Spring Boot (EBI) Training January 2024 - February 2024

- Mastered the foundational principles of Java programming.
- Gained expertise in using the Spring Boot framework to build modern web applications.
- Developed the ability to design and create scalable applications.
- Acquired hands-on experience through real-world software projects.

IT Helpdesk (ISUPPORT) Training January 2023 - February 2023

- Gained practical experience in providing helpdesk support and assisting users with technical issues.
- Ensured timely resolution of support tickets, enhancing user satisfaction.
- Developed strong problem-solving and communication skills in a technical support environment.

SKILLS

Java: Object-Oriented Programming (OOP), Streams, Threads, Collections, JPA, Web Servers, Hibernate, APIs, and JDBC.

Spring Framework: Core, Data, MVC, Security Boot, Spring Web, Hibernate, and RESTful APIs.

Front End: HTML5, CSS, Bootstrap.

Database: MySQL

Related: Postman, Maven, Testing, Git., Python, Javascript

PROJECT

Legal System Web Application **GitHub**

- Designed and developed a web application named "Legal System" as part of an internship project at ERC Company.
- Implemented features to facilitate registration, login, file management, and approval workflows for normal and legal users using Java, Spring Boot, Thymeleaf, and MySQL.
- Employed Apache Tomcat and Apache for deployment and Postman for testing to ensure application reliability and functionality.
- Demonstrated strong problem-solving skills and attention to detail throughout the development lifecycle.

Employee Management System **GitHub**

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)

Online Book Store (Java Spring Boot) GitHub

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.

COURSEWORK

Algorithms Analysis and Design (Cloud Camp Native) June 2023

- Mastered efficient search algorithms, including linear and binary search, and sorting algorithms like bubble sort and merge sort.
- Refined skills in writing clean, readable, and efficient code, optimizing for both time and memory usage.
- Utilized programming languages such as Python, Java, and C++.

Data Structures Decode (Cloud Camp Native) August 2023

- Learned various data structures including linked lists, arrays, stacks, and queues.
- Understood the functionality and efficient usage of each data structure.
- Applied knowledge using programming languages like Java and C++.

ISTQB Foundation Level Complete Training (Nezam) March 2023

- Grasped core concepts of software testing and its role in the software development life cycle (SDLC).
- Gained comprehensive knowledge of testing techniques, including black-box and white-box testing, equivalence partitioning, and boundary value analysis.

Java and Spring Boot (EBI) January 2024

- Mastered Java fundamentals, including core concepts like object-oriented programming, data structures, and algorithms.
- Built web applications efficiently using Spring Boot, streamlining development for full-stack applications.
- Explored modern web technologies, focusing on REST APIs and database integration.

Core Java Programming (MaharaTech) April 2024

- Understood the fundamentals of Java programming language syntax and semantics.
- Gained hands-on experience in writing Java programs to solve problems, enhancing problem-solving skills through practical coding exercises.

EDUCATION

Bachelor of Science in Computer Science

Modern Academy, Computer Science Department

October 2017 - June 2021

Graduated with a Bachelor of Science degree in Computer Science, demonstrating a strong foundation in computer science principles and practices.

MILITARY STATUS

Completed mandatory military service.