Mohamad Alkahil

Toronto, ON

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SKILLS

- Programming skills in Python, Java, SQL, C, HTML, and CSS
- Familiar with Git, Azure, FastAPI, gRPC, RabbitMQ, JSON, JUnit testing, and the software development process
- Experience implementing OOP principles, design patterns, algorithms, and data structures

EDUCATION

Toronto Metropolitan University   Graduated June 2023

Bachelor of Engineering: Computer Engineering (Specialization in Software Engineering)

- **GPA**: 3.68/4.33, Graduated with Distinction, Dean's List Recipient 2019-2023

PROJECTS

FastAPI Rover   March 2023 – April 2023

(https://github.com/MohamadAlkahil/FastAPI_Rover)

- Developed as the sole contributor a FastAPI server to facilitate RESTful communication between an operator and a server.
- Utilized Python for the operator command line application, enabling efficient interaction with the server.
- Deployed the server as a Docker container and hosted it on Azure as a web app.
- Created functionality to retrieve, update, and manipulate maps, mines, and rovers.
- Visualized rover paths using a text file.

Book Management System   March 2022 – April 2022

(https://github.com/MohamadAlkahil/Book_Management_System)

- Developed as the sole contributor a book database using SQLite.
- Created a Java application utilizing JDBC to connect to the SQLite database.
- Created SQL queries to retrieve data based on user-selected options.
- Built a command-line tool for interacting with the book database.

Banking Application   March 2020 – April 2020

(https://github.com/MohamadAlkahil/Banking-Application-Project)

- Developed as the sole contributor a Java-based banking application from scratch using JavaFX for the user interface.
- Implemented login validation and user authentication functionality.
- Utilized SQLite database with JDBC for storing customer and manager information.
- Created different account levels (Gold, Silver, Platinum) with varying fees and privileges using state design pattern.
- Implemented customer-specific functionalities such as balance retrieval, updating, and account level changes.

WORK EXPERIENCE

City of Toronto – *Aquatic Coordinator*   June 2023 – Present

- Coordinate and manage operations for 3+ pools, with 20+ programs and 50+ staff.
- Facilitate training for 60+ staff ensuring all learning outcomes are met.

City of Toronto – *Pool In-Charge*   March 2020 – June 2023

- Managed operations for high-capacity pools, supervising daily operations with 200+ public patrons and a team of 6+ staff.
- Communicated regulations, policies, and instructions clearly to staff and the public.
- Collaborated with a team to execute emergency procedures and successfully adapt to changing circumstances.

CERTIFICATIONS

- sololearn Introduction to Python   January 13, 2023
- sololearn Python for Data Science   January 14, 2023
- sololearn Introduction to HTML   March 4, 2023