Alwalid S. Khan

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Education

Toronto Metropolitan University (Formerly **Ryerson University)**   September 2022 - April 2026
B.Sc (Hons) Computer Science

- **Cumulative GPA**: 3.73/4.33
- **Awards:** Dean's List 2022-2023
- **Relevant Coursework**: Computer Architecture, Computer Programming, Digital Design/Logic, Data Structures and Algorithms, Object Oriented Programming, Introduction to Security Protocols

Skills

Technical Skills:

JavaScript • Python • Java • SQL • HTML • CSS • React • Git • Node.js • Angular.js SpringBoot • PostgreSQL • MongoDB • SQLite • Oracle • Agile Development • RESTful APIs • Machine Learning • Docker • Kubernetes • Rust

Soft Skills:

Public Speaking • Resourcefulness • Time Management • Problem Solving Skills • Leadership & Management • Grit

Experience

Glenforest Computer Science Club   September 2020 - June 2022
Senior Executive   Mississauga, ON

- Instructed **50+** kids on the basics of programming in **Python** and **Java** over the course of **2** years using different assignments and materials
- Communicated with other senior executives to host monthly workshops on concepts including **Data Structures & Algorithms** in **Python** and **C++** and Introduction to Github
- Effectively hosted a hackathon involving **200+** students to demonstrate each student's knowledge on **Data Structures and Algorithms** in different programming languages
- **Technologies Used:** Python, Java, C++, Gitlab

BlackTechMatters   February 2021 - March 2021
Community Volunteer   Mississauga, ON

- Collaborated with a team of 5 students in developing a technology-driven solution aimed at breaking down barriers to generational wealth for minority communities
- Incorporated different front-end frameworks such as **Flask, HTML,** and **CSS** to collect and analyze data on over **10,000+** records from nationwide housing security in Canada.
- Presented our solution to a vendor of judges, demonstrating strong **public speaking** and **leadership** skills, resulting in positive feedback on our project
- **Technologies Used:** Python, Flask, HTML & CSS

Projects

Verve   **Github Docs** — Java, PostgreSQL, Angular.js
- Built a **SpringBoot** social-media application for communicating and interacting with other users through DMs and posts
- Initialized a **PostgreSQL** database in a **Docker** container using a **Bash** script, allowing for easy and secure data access
- Conceptualized and designed an **Angular** frontend supported by a **Java** backend, allowing for a scalable application

Ethical Analysis of ChatGPT   **Report** — Python, NumPy, Matplotlib, Regression
- Surveyed over 200 post-secondary students on their views of ChatGPT and the use of ChatGPT in academia for research, topic clarification, and commercial purposes.
- Collaborated with 4 other students to develop and implement a **Linear Regression** algorithm, leveraging **NumPy** & **Python**
- Published a report on how academia perceives ChatGPT in a negative way, found especially among professors.

Static Portfolio   **Website** — JavaScript, React, HTML, CSS, Gitlab
- Created a dynamic portfolio showcasing my personal projects and basic information about me
- Leveraged **React** and **Three.js** for unique and interactive user interfaces, allowing for **200+** visits every month

Sorting & Pathfinding Visualizer   **Website** — JavaScript, React, HTML, CSS, Gitlab
- Built a **React** application for visualizing pathfinding, sorting, and maze-generation algorithms
- Implemented **6** common sorting algorithms and developed unique pathfinding algorithms based on **Dijkstra's** Algorithm