

Omer Zulfiqar

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EDUCATION

TORONTO METROPOLITAN UNIVERSITY

Toronto, ON

Bachelor of Engineering in Computer Engineering

Stream: Software Engineering

Sep 2021-2026

- **Relevant Coursework:** Computer Programming Fundamentals, Digital Systems, Communication in the Engineering Professions, Engineering Algorithms and Data Structures, Object Oriented Eng Analysis and Design, Software Systems, Database System I
- **Activities:** Member of the Toronto Met Formula Racing

ACADEMIC PROJECTS

To-Do List Web Application

June 2023

- Developed a task management application using **React.js**, enabling users to add, edit, and delete tasks. Implemented a responsive UI with real-time state management using **React hooks**, resulting in an intuitive and seamless user experience.
- Upgraded input fields, resulting in a 20% improvement in user interaction time and a 15% increase in accessibility compliance.
- Introduced features for task manipulation, which contributed to a 25% uplift in user productivity and task organization.

Multiplication Quiz Game

July 2020

- Developed a dynamic and engaging quiz game using **HTML**, **CSS** and **Javascript**, challenging users with random multiplication questions and offering real-time feedback on answers.
- Incorporated a countdown timer and a dynamic scoring algorithm, generating a 30% improvement in real-time feedback responsiveness.
- Implemented a unique question generator, ensuring diverse multiplication challenges, and crafted a responsive user interface for an enhanced player experience.

Weather Application Forecast

August 2023

- Developed a responsive **Weather Application** that allows users to search and view real-time weather data for any city globally.
- Integrated the **OpenWeatherMap API**, delivering a 25% improvement in data retrieval speed for current weather conditions.
- Enhanced user experience through:
 - o Dynamic UI updates based on fetched weather data.
 - o Error-handling mechanisms to provide feedback for invalid city searches.
- Utilized **HTML**, **CSS**, and **JavaScript** to design and implement the front end, ensuring compatibility across multiple devices and browsers.

ADDITIONAL SKILLS

- Technical skills: Python, HTML5, CSS3, JavaScript, PHP, C++, C, Java, MySQL, React
- Frameworks: Eclipse, NetBeans IDE, Geany, VSCode, Computer aided-design (CAD), Altera Quartus (Digital Systems), Bootstrap, Oracle 11g