




# Husam Kassab

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## SKILLS

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**Languages:** C, C++, Python, Java, HTML, CSS, Tailwind CSS, JavaScript, Assembly, VHDL, SQL, PHP Laravel

**Technologies:** NPM, Oracle, Linux, Git, MATLAB, Quartus II, Multisim, Visual Studio, MySQL, NodeJS, React

## PERSONAL PROJECTS

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### TMusic

December 2023

- Lead development of music social-media app targeting TMU students, using technologies such as **React.js**, and **PHP**
- Integrate **Spotify API** to provide real-time music data, enhancing user engagement and experience.
- Implement secure user authentication via **Google OAuth**, enabling login via TMU email accounts.
- Design and manage a **MySQL** database using **TablePlus** for efficient storage and retrieval of user data, music posts, and statistics.

### Weather System Application

July 2023

- Developed a dynamic website using **React** to fetch and present real-time weather data through **API integration**.
- Implemented a robust data ingestion mechanism for capturing and processing various weather information.
- Increased the website's average loading speed by **30%** through optimization techniques.
- Designed a visually appealing and user-friendly interface using **HTML**, **CSS**, and **JavaScript**.

### Bookstore Application

May 2022

- Built a bookstore application that allows the function of purchasing and creating books using **Java**.
- Programmed a secure login system separating admins and customers, allowing for different functions.
- Achieved an easy-to-use GUI using **JavaFX** and collaborated with a team using **Git**.

### Towers of Hanoi Problem Solver

February 2022

- Implemented a **C** algorithm on **Linux** to resolve the classic puzzle, efficiently detailing each move.
- Optimized a recursive algorithm by reducing its runtime by **55%** through careful modifications and enhancements.
- Utilized various algorithms, including **insertion sort** and **merge sort**, to construct the project effectively.

## EXPERIENCE

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### Adidas Canada | Retail Sales Associate

September 2021 – September 2022

- Provided exceptional customer service to create a positive shopping experience for customers.
- Collaborated with team members to meet store goals and resolve customer concerns promptly.

## LEADERSHIP EXPERIENCE

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### Toronto Metropolitan University (Previously Ryerson) Muslim Student Society

Toronto, ON

Student Engagement Sub-Committee

Sept 2022 – Present

- Organized multiple events such as basketball games, soccer games, as well as Islamic knowledge events by coordinating with sub-committee members.

### Competitive Programming Club

Toronto, ON

Toronto Metropolitan University (Previously Ryerson University)

April 2022 - Present

- Competed in weekly competitions, attended technical interview preparations, and helped improve existing projects from other classmates.

## EDUCATION

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### Toronto Metropolitan University (Previously Ryerson University)

Toronto, ON

B.Sc. – Computer Engineering / Software Specialization

Sept 2020 - Present

- Related Coursework: Software Systems, Computer Networks, Database Systems, Data structures and Algorithms, Object Oriented Programming, Software Design and Architecture, Software Requirement Analysis and SPEC