

Morgan Yu

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EDUCATION

University of Waterloo

Candidate for Bachelor of Applied Science in Computer Engineering

Waterloo, On

Sept. 2023 – May 2028

TECHNICAL SKILLS

Languages: Assembly, Java, C++

Developer Tools: Eclipse, Replit, VS Code

Design Tools: AutoCAD, TinkerCAD, Fritzing, Logisim

Data Visualization: Adobe Acrobat, Google Sheets, Google Slides, Microsoft PowerPoint, Microsoft Excel, MS Office

PROJECTS

Stock Transaction Sorter | *VSCode, C++*

Oct. 2023 – Nov. 2023

- Developed a C++ program designed to efficiently process transaction data using the selection sort algorithm, delivering organized results
- Used object-oriented programming by applying classes, constructors, destructors, and method overloading
- Applied programming concepts such as addresses, pointers, and dynamically allocated memory to make effective singly linked lists

Minesweeper | *VSCode, C++*

Oct. 2023 – Nov. 2023

- Created a C++ program that allows a user to play Minesweeper
- Applied arrays, bitwise operations, and dynamically allocated memory to create the game board and mechanics

Otter Simulator | *Unity, Blender, GitHub*

July 2022 – January 2023

- Assisted a computer engineering student with 5+ years of experience in creating a game in Unity by implementing assets via Blender
- Participated in the design process by using flow charts and communication systems with my mentor

Cat Dash | *Java, Eclipse*

December 2022 – January 2023

- Developed a pixel-art, endless-running game using 5+ methods to simplify the program code
- Applied Java graphics to create the user interface

EXPERIENCE

Assistant Instructor

July 2023 – August 2023

City of Markham

Markham, On

- Assisted a cooking class and three activity-based workshops for a total class size of 30 students
- Taught students 7 recipes that improved fine motor and safety skills over a two-month term
- Created and organized cooking recipes and activities for students

Competition Logistics Director

August 2022 – May 2023

Integirls

Toronto, On

- Delegated tasks for a team of three individuals to create math competition questions and games
- Negotiated with 50+ businesses for sponsorships through emails and acquired 500 dollars in funding
- Assisted the planning of two math competitions virtually and in-person with a combined total of 70 participants

Assembly Line Worker

July 2021 – August 2021

Six Points Plastics Inc.

Mississauga, On

- Utilized 15+ industrial machines to complete 5+ orders for clientele
- Contributed 5K+ of plastic materials for client orders via various industrial machines