

# Morgan Yu

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## EDUCATION

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### University of Waterloo

*Candidate for Bachelor of Applied Science in Computer Engineering*

Waterloo, On

*Sept. 2023 – May 2028*

## TECHNICAL SKILLS

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**Languages:** Assembly, C++, Java, Python

**Developer Tools:** Eclipse, Replit, VS Code

**Design Tools:** AutoCAD, TinkerCAD, Fritzing, Logisim, OpenPLC

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

**Frameworks:** Django, React.js

## PROJECTS

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### VIN Scriber Web Application | *VSCode, Python, Django, SQL*

Feb. 2024 – Apr. 2024

- Created a Python web application using Django to eliminate all possible errors during the scribing of the truck to increase the efficiency of the production line
- Iterated through the project design life cycle to design and implement a web application into production by creating documentation such as the scope and user guides
- Implemented ASCII protocols to communicate between the web application and industrial VIN scriber via UDP socket connection
- Deployed web application to company's network using Microsoft IIS on a web server
- Queried multiple SQL tables to insert and pull data

### Weather Web Application | *React.js, JavaScript, CSS, VSCode*

Apr. 2024

- Developed a React web application that uses APIs to allow the user to search the weather conditions of a city
- Applied CSS to format and create the user interface
- Used a weather API to call upon 5 various weather-related conditions in a specific city

### Personal Website | *HTML, CSS*

Apr. 2024

- Developed a responsive portfolio website using HTML and CSS
- Applied CSS and bootstraps to create the client-side interface

### 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

## EXPERIENCE

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### IT Co-op Student

Feb. 2024 – Apr. 2024

*Hino Motors Canada*

*Mississauga, On*

- Created and deployed a Python web application that interacted with an industrial VIN Scriber which allowed the removal of all errors for the inscribing process on the production line
- Communicated with supervisors on the progress of tickets and tasks through daily IT meetings
- Created documentation for the web application including a user guide and administration handbook
- Assisted the IT help-desk by completing tickets from both the Mississauga and Woodstock Hino Motors locations
- Deployed and conducted end-of-employment procedures on computers for users

### 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