

1006-60 Callowhill Dr., Etobicoke, ON, Canada

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Relevant Skills _____

Languages C/C++, Java, Java Swing, VHDL, Python, JavaScript

Technologies/Tools HTML/CSS, Git, Processing, Visual Studio, Bootstraps, UIPath

Education _

University of Waterloo

Waterloo, Ontario

B.ASc in Computer Engineering (Honors Co-op)

September 2019 - April 2024 (Expected)

Relevant Courses: Fundamentals of Programming, Digital Circuits and Systems, Linear Circuits, Discrete Mathematics and Logic.

Projects

Price Point

1ST PLACE AUTOMATED WEBAPP MADE FOR THE **STARTERHACKS 2020** HACKATHON

January 2020

- Developed an automated webapp which **scrapes data** from various eCommerce websites to display various links to products.
- Data scraping automation process done utilizing UIPath and a beautiful UI/UX created with JavaScript, HTML and CSS
- 1st place at StarterHacks for best UIPath application amongst 2000+ participants.

Sudoku Solver (Python)

GUI SUDOKU SOLVER

March 2020

- Developed a Sudoku Solver by implementing the backtracking algorithm using Python.
- Responsive GUI displaying the backtracking algorithm solving the board in real time implemented utilizing the PyGame library.
- User features implemented, such as setting board defaults, view algorithm in real time using multi-threading, and resetting board.

Pokemon Battle Simulator (Java)

A GUI-BASED TWO PLAYER GAME ON JAVA

December 2019

- Developed a two player game using Java.
- Designed and created a responsive UI/UX using Java Swing using multiple sprites and animations.
- Uses **File Management** to read character data. Ability to easily add new characters.
- Flexible program able to add new characters by editing text file to create a Realistic Pokemon Battle simulator.

Pokemon Battle Simulator (C++)

A TEXT-BASED TWO PLAYER GAME ON C++

December 2019

- Developed a text-based two player game using C++.
- Realistic and accurate Pokemon Battle Simulator able to read character data from text files.

Autonomous Vehicle

DESIGNED AN SMALL-SCALED AUTONOMOUS VEHICLE

December 2018 - March 2019

- Organized and Led team of 6 members to UofT Engineering Idol Competition.
- Created an autonomous vehicle using Arduino, able to maneuver around a track.
- Oversaw and led design process as Engineering Club president.

RC4 Encryption / Decryption Software (C++)

C++ COURSE PROJECT

October 2019

• Encrypts and deciphers strings use **RC4 algorithm**, using ASCII armour to safely and reliably encrypt messages.

ETF / transaction history sorter (C++)

TRANSACTION SORTER ON C++

December 2019

• Used **linked lists** and **pointers** to dynamically create a list of **C++**. Able to access and read a text file to retrieve stock data.

Related Experience

MCI Engineering Club

Etobicoke, Canada

Summer 2019

PRESIDENT

September 2017 - June 2019

- Organized engineering workshops at school as president.
- Managed a budget to create **engineering prototypes** run workshops for **over 40 students** .
- Led group of 6 students to compete in the **UofT Engineering Idol Competition** involving **over 20 schools**.

Pizza Pizza
Toronto, Canada

CASHIER/ COOK

• Followed safety and health standards to ensure customer safety and complete tasks in a fast paced environment

MARCH 19, 2020 UMAR ASIF · RÉSUMÉ