

Umar Asif

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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

AN 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**.

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.
- 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 able to maneuver around a track.
- Oversaw design process as **Engineering Club president**.

PDLC film heating solution

PDLC FILM USED AS AN SMART INSULATION SOLUTION

December 2017 - March 2018

- **Organized and Led** team of 6 members to **UofT Engineering Idol Competition**.
- Created a heating solution using Polymer Dispersed Liquid Crystals(PDLC) film.
- **Designed and presented** a prototype to a panel of judges.
- Implemented a Wifi-switch and potentiometer with PDLC Film to create a smart and effective heating solution.

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

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

Summer 2019

- Followed safety and health standards to ensure customer safety and complete tasks in a fast packed environment

