


Rizwan Kassamali

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Skills

- **Java** – Over 2 years of experience with linked lists, objects, multi-dimensional arrays, graphics, decision and looping structures
- **C++** - Over 6 months of experience through a university course and enhanced by personal interest
- **Python** – 4 months of knowledge with looping structures, arrays and conditional statements
- **Circuit design and soldering** – through projects with breadboards and PCBs

Projects

Encryptions

May 2019, November 2019

- Created 2 different message encryptions, one in Java and one in C++
- Encryption in Java that used randomizer, conversion to hex, Caesar ciphers and concatenating ASCII values
- C++ based encryption used a key given by the user to randomize the characters, then applied ASCII Armour
 - Similar to RSA encryption
- Created decryptions for both programs that gave back the original phrase.

Website

December 2019 – Present

- Created a personal webpage to showcase projects and experience
- Coded using HTML and CSS via Angular framework
- rizwank99.github.io

Joystick

December 2017 - January 2018

- Created a joystick that could be used as input to a computer via the parallel port
- Created a maze and tic-tac-toe games that used the joystick to control the movement

Escape the Room

May 2017 - June 2017

- Created an escape the room style game, where the user had to use clues to solve the puzzle
- The game had two different
- Used variety of looping structures and conditional statements

Experience

The Great Canadian Bagel

June 2018 – August 2019

- Took ownership to create muffin, Danish and croissant platters for up to 20 school orders
- Prepared specialized orders for customers, including custom sandwiches and drinks

AV Team President

September 2018 – June 2019

- Helped teachers with hardware issues in the classroom and software problems with digital classrooms and complicated programs
- Set up lights, audio, video and cameras for assemblies and ensured there were no complications

Education

Candidate for B.A.Sc. in Computer Engineering – University of Waterloo

Sept. 2019 – Present

- Relevant Courses: Fundamentals of Programming (C++), Linear Circuits & Digital Circuits and Systems
- Received Presidents Scholarship for average above 90%

Interest

Technology | Design | Hockey | Space Exploration | Music