


# Rizwan Kassamali

(905) 783 – 1478 

rizwankassamali1@gmail.com 

github.com/RizwanK99 

linkedin.com/in/rizwankassamali/ 

---

## Skills

- **Java** – 2+ years of experience with linked lists, objects, multi-dimensional arrays, graphics, decision structures and loops
- **C++** - 6+ months of experience through a university course and enhanced by personal interest – knowledge includes loops, pointers, multi-dimensional arrays, memory management, linked lists, and data structures
- **Python** – 4+ months of knowledge with loops, functions, arrays and conditional statements
- **HTML and CSS** – 3+ months of experience via the development of a website
- **Circuit design and soldering** – constructed various circuits with breadboards using logic gates then transferred and soldered the circuits to PCBs

---

## Projects

### Encryptions

May 2019, Nov 2019

- Designed 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
  - Like RSA encryption with a stream cipher
- Created decryptions for both programs that gave back the original phrase

### Website

Dec 2019 – Present

- Developed a personal webpage to showcase projects and experience
- Coded using HTML and CSS via Angular framework, upload to GitHub via Git terminal
- Available at [rizwank99.github.io](http://rizwank99.github.io)

### Joystick

Dec 2017 - Jan 2018

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

### Escape the Room

May 2017 - Jun 2017

- Created an escape the room style game, where the user had to use clues to solve puzzles and escape
- The game had two different rooms from which the user could try and escape
- Formed button codes, timer for time limit and made elements appear when certain tasks were done

---

## Experience

### AV Team President

Sep 2018 – Jun 2019

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

### The Great Canadian Bagel

Jun 2018 – Aug 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

---

## Education

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

Sep 2019 – Present

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

---

**Interests** - Technology | Design | Hockey | Space Exploration | Music