Rizwan Kassamali

905-783-1478 | rizwankassamali1@gmail.com | github.com/RizwanK99 | linkedin.com/in/rizwank99/ | rizwank99.github.io

Skills

- **Java –** Over 2 years of experience with linked lists, objects, multi-dimensional arrays, graphics, decision structures, loops, Java AWT and Java Swing
- **C++** - Over 8 months of experience through a university course and enhanced by personal interest
- **Python –** More than 7 months of knowledge with loops, functions, lists, arrays, file management and Tkinter GUI
- **HTML** and **CSS –** 6+ months of experience via the development of a website
- **VHDL –** 3 months of practical involvement programming various programs with a FPGA
- **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
  - Similar to 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

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

Loblaw Companies Ltd.
May 2020 – Aug 2020

- Created Python scripts to check the number of live stores and ensure files are sent in the correct order
- Managed and updated serves and gateways using SQL
- Kept weekly tracks of timed out electronic shelf labels using a customized Python script

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

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