

Summary of Qualifications

- Proficient in Java, C, C++ and various assembly languages.
- Enjoys working in and understanding low-level environments such as embedded systems.
- Familiar with building websites using HTML5, CSS3 and JavaScript.
- Adept with Linux and many common applications such as Git and GDB.

Projects

- LAByrinth
 - Created a labyrinth game using a microcontroller board with C.
 - Utilised both serial and parallel I/O to communicate with peripherals.
- Breadboard Computer
 - Created a computer based on the 6502 processor on a breadboard using only ICs (integrated circuits).
 - Programmed a version of Pong using 6502 assembly.
 - Utilised an EEPROM programmer to load assembled hex image.
- Java-Webchat
 - Developed RMI-based (Remote Method Invocation) communication protocol.
 - Implemented a user database which took precautions to secure user data using salted hashes.
 - Made use of object-oriented programming principles in order to create a cleaner codebase.

Experience

- 2015 **IT Volunteer**, *Administration*, Newcomer Centre of Peel.
 - Created tool to backup user data using Windows Batch scripting.
 - Acted as system administrator.
 - Provided technical assistance to employees.
- 2007–2015 **Cadet Warrant Officer**, *Royal Canadian Air Cadets*, 700 David Hornell VC Squadron.
 - Planned and organised events as a member of a team.
 - Captained the drill team consisting of the squadron's most successful cadets.
 - Commanded over 120 peers during graduation parade of Drill and Ceremonial Instructors Course.

Education

- 2015–2020 **Candidate for Bachelors of Software Engineering**, *University of Waterloo*, Waterloo, Ontario.
Cumulative GPA: 3.85
- 2011–2015 **Ontario Secondary School Diploma**, *Martingrove Collegiate Institute*, Toronto, Ontario.
Academic Average: 95.0%

Awards and Scholarships

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| 2015 | Sandford Fleming Foundation Programming Competition Award | Second Place |
| 2015 | Dean's Honours List at University of Waterloo | Term Average of 87% or Greater |
| 2015 | President's Scholarship of Distinction | Admission Average of 95% or Greater |
| 2014 | General Proficiency Award at Martingrove Collegiate Institute | Second Greatest Overall Academic Average |
| 2014 | University of Toronto High School Design Competition | First Place |

Interests and Hobbies

- Plays cello, double bass and piano.
- Avid unicyclist.
- Fanatical user of \LaTeX .
- Proud Vim user.