

# Kieran Hulsman

Software Engineering Student

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**LANGUAGES:** C/C++, Python, Java, JavaScript, HTML/CSS, VHDL

**TECHNOLOGIES:** Git, Unix, AWS, GTest, MISRA-C

## PROJECTS

### **ForAllTimes**

Oct 2022 - Jan 2023

- Created a study space traffic counter in the Software Engineering lounge to make finding a quiet study spot easier
- Used git by pushing 39 commits to our project's repository to integrate code with the rest of the team
- Registered our Raspberry Pi as an AWS IoT device to send entry/exit data from ultrasonic sensors to the cloud
- Implemented an AWS Lambda function to process data from the Raspberry Pi and update a database with Python
- Used DynamoDB to keep track of the number of people in the lounge, which our front-end displayed on the website

### **Hangman Game**

Mar 2021 - Apr 2021

- Created a terminal-based hangman game using Java, which incorporated colour and sound
- Implemented object-oriented programming techniques to organize code and increase maintainability
- Improved UX by decreasing graphics lag using multi-threading to run processes concurrently
- Built a shift cypher encryption algorithm to hide phrases from user with file I/O

### **BeTreel - 1st Place, The Golden Hack**

Sep 2022

- Developed a webpage for a social media platform which mimicked BeReal by notifying users once per day
- Prompted users to post themselves completing eco-friendly activities by leveraging social accountability

## EXTRACURRICULARS

### **Formula Electric Design Team**

Sep 2022 - Present

University of Waterloo

- Decreased the risk of unexpected behaviour by using MISRA-C lint tools
- Collaborated with other students on a large pre-existing code-base, developing familiarity with version control
- Improved the car's error handling capabilities using CAN signals to sent error messages to different boards on the car

### **Software Engineering Representative, Engineering Society**

Jan 2023 - Present

University of Waterloo

- Represented my cohort in Engineering faculty by advocating for and voting on policies
- Reviewed design team sponsorship requests on the Sponsorship Allocation Committee

## VOLUNTEERING

### **Political Canvassing, Liberal Party**

Aug 2021 - Jun 2022

125 volunteer hours

- Developed logistical skills by leading canvassing teams for federal and provincial elections
- Improved communication skills by speaking to constituents their top concerns

### **Volunteer, YMCA**

Nov 2018 - May 2019

145 volunteer hours

- Honed teamwork skills by running weekly basketball and volleyball games with staff and other volunteers

## EDUCATION

### **University of Waterloo**

(Sept 2022 - April 2027)

Software Engineering, Honours (BSE)

- **GPA: 89.5% (3.8/4.0)**

### **Lawrence Park C.I., Toronto**

(Sept 2018 - June 2022)

Honours Certificate of Bilingual Studies, French Immersion

- **Grade 12: 99.2%**