


# Kieran Hulsman

Software Engineering Student

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

**Technologies:** Git, Unix/Linux, AWS, Excel, GTest, MISRA-C, LaTeX

## Experience

### Lead Coding Instructor

Apr. 2023 – Aug. 2023

 [Code Ninjas](#)

Aurora, Ontario (full-time, on-site)

- Served as a lead instructor, supporting the management of **15 staff members** in their day-to-day operations
- Played a pivotal role in driving company growth from **0 to 100+ clients** by conducting over **600 sales calls**
- Responsible the setup and maintenance of our **30 devices**, ensuring the smooth IT operations of the business
- Established and implemented many of the franchise's administrative systems as the startup's first full-time employee
- led **100+** coding education sessions for children aged 5-14, fostering digital literacy and problem-solving skills

### Data Analyst Intern | Python, Excel

Jun. 2023 – Aug. 2023

 [believeco:partners](#)

Toronto, Ontario (part-time, remote)

- Employed the **openPyXL Python library** to automate data validation and amalgamation of client lists in **Excel**
- Attentively combed through **Excel** sheets to update **2000+** clients in Function Point and QuickBooks Online

## Projects

### ForAllTimes | Python, JavaScript, HTML/CSS, PHP, Git

Oct. 2022 – Jan. 2023

- Developed a traffic counter, enhancing student's ability to find quiet study spots with an **accuracy rate of 90%**
- Collaborated with the team using **Git version control**, contributing **39 commits** to our project's repository
- Registered our Raspberry Pi as an **AWS IoT** device to send entry/exit data from our **ultrasonic sensors** to the cloud
- Implemented an **AWS Lambda** function in **Python** to process data from the **Raspberry Pi** and update our database
- Utilized **DynamoDB** to track the number of students in the lounge, displaying the data on our website's front-end

### Hangman Game | Java

Mar. 2021 – Apr. 2021

- Developed a terminal-based hangman game using **Java**, incorporating colourful output and sound effects
- Implemented **object-oriented programming** techniques to effectively organize code and improve maintainability
- Enhanced user experience by optimizing graphics performance through the implementation of **multi-threading**
- Developed a shift cipher **encryption algorithm** using file **input/output** (I/O) to conceal phrases from the user

### BeTreel - 1st Place, The Golden Hack | JavaScript, HTML/CSS, Git

Sep. 2022

- Developed a social media webpage resembling BeReal, providing daily user notifications for an engaging experience
- Encouraged users to share eco-friendly activities, fostering social accountability for a sustainable impact

## Extracurriculars

### Firmware team member | C, Git

Sep. 2022 – Apr. 2023

 [Formula Electric Design Team](#)

University of Waterloo

- Reduced the risk of unexpected behaviour by utilizing **MISRA-C** lint tools, ensuring code reliability
- Collaborated with other students on a code base of over **300 contributors**, developing familiarity with version control
- Enhanced the car's error handling by leveraging CAN signals to communicate error messages across 6 different boards

### Software Engineering Class Representative

Jan. 2023 – Apr. 2023

 [Engineering Society](#)

University of Waterloo

- Advocated for my **150-person cohort** within the Engineering faculty, actively participating in policy discussions
- Served on the Sponsorship Allocation Committee, distributing over **\$8000** in funding to student design teams

## Education

### University of Waterloo

Sep. 2022 – Apr. 2027

Bachelor of Software Engineering, Honours (BSE)

Waterloo, Ontario

- cGPA: 89.6% (3.9/4.0)**
- President's Scholarship of Distinction: awarded to students upon admissions for academic excellence in high school
- Term Distinction / **Dean's Honours List** (Faculty of Mathematics): awarded in terms 1A & 1B