





Kieran Hulsman

Software Engineering Student

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Languages: JavaScript, Python, C/C++, SQL, TypeScript, Java, HTML/CSS, Scala, Bash, Assembly

Technologies: React, Node, AWS (Lambda/DynamoDB/S3), Flask, Express, Axios, Git, Unix/Linux

Education

University of Waterloo

Sep. 2022 – Present

Bachelor of Software Engineering, Honours (BSE)

Waterloo, Ontario

- **cGPA: 91% (3.9/4.0)**
- **Engineering Dean's Honours:** awarded in 2A term for achieving in the **top 10%** of Software Engineering program
- Relevant coursework: data structures and algorithms (**C/C++**), compilers (**Assembly/Scala**)
- Class representative: Engineering Society, Mathematics Society, Software Engineering Society

Experience

Software Developer Intern

Jan. 2024 – Apr. 2024


 *Ollo* – 'Outstanding' co-op rating

Toronto, Ontario

- Worked fullstack on two live projects, developing **React** components, **Express** backend routes, and **SQL** queries
- Personally contributed **20,000 lines** of production-level code across **150 pull requests** on two live projects
- Implemented key document upload feature with **React (TypeScript)** and **Node (JavaScript)**, storing files on **SMB**
- Developed landing page in React with custom **Google Analytics** event tracking to gain insights into user behaviour

Lead Coding Instructor

Apr. 2023 – Aug. 2023


 *Code Ninjas* – 'Outstanding' co-op rating

Aurora, Ontario

- Served as lead instructor, supporting the management of **15 staff members** in their day-to-day operations
- Led **100+** educational coding sessions for children aged 5-14, teaching object-oriented programming, JavaScript and Lua
- Played a pivotal role in driving company growth from **0 to 100+ clients** by conducting over **600 sales calls**
- Ensured the smooth IT operations of the business by setting-up and maintaining the fleet of over **30 devices**

Software Developer

Sep. 2022 – Apr. 2023

 *Formula Electric Design Team*


Waterloo, Ontario

- Enhanced the car's error handling capabilities by leveraging **CAN** signals to broadcast signals across 6 boards using **C**
- Reduced the risk of unexpected behaviour using **MISRA-C lint** tools on a **300+** contributor code base


Projects

 **Flashify - 1st Overall, Golden Hack 2023** | *React, Flask, MySQL, JavaScript, Python, AWS S3, Tailwind CSS*

- Created a web application that leverages AI to transform user-uploaded handwritten notes into interactive flashcards
- Developed API endpoints to query a **SQL** database from **Flask** backend, enabling the site's **CRUD** functionality
- Designed flashcard components in **React** with **Tailwind CSS**, incorporating animated card-flipping features
- Utilized **OpenAI's API** to generate question-answer pairs from OCR-parsed user-uploaded images stored in **AWS S3**
- Implemented an authenticated login system to relationally store flashcard decks with users' accounts in a **SQL** database

 **PlanMyWeekend - AI Itinerary Planner** | *Node, React, Express, JavaScript, TypeScript, Tailwind CSS, OpenAI API*

- Deployed an application that leverages **OpenAI's API** to plan engaging weekend itineraries tailored to users' cities
- Engineered a **Node** backend using **Express** to facilitate API requests from a **React** frontend written in **TypeScript**
- Utilized a web-scraping API to gather real-time information on upcoming events and activities in the user-inputted city

 **ForAllTimes - Lounge Traffic Monitor** | *AWS, Python, Node, JavaScript, Git, HTML/CSS, Raspberry Pi*

- Developed a traffic counter with an accuracy rate of **90%**, making it easier to find quiet places to study
- Implemented an **AWS Lambda** function in **Python** to process data from a **Raspberry Pi** and update DynamoDB
- Integrated **DynamoDB** with a **Node** backend to track the number of students in a lounge with CRUD functionality
- Leveraged MQTT protocol to send entry/exit **ultrasonic sensor** data from Raspberry Pi to AWS Lambda function