Kieran Hulsman

3A Software Engineering Student

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Languages: Python, Javascript, C/C++, SQL, TypeScript, Java, HTML/CSS, Scala, Bash, Assembly
Technologies: AWS (Lambda/DynamoDB/S3), React, Node, Flask, Express, Axios, Git, CVS, Unix/Linux

Education

University of Waterloo **Sep. 2022 – Apr. 2027**
Bachelor of Software Engineering, Honours (BSE) *Waterloo, Ontario*

- **cGPA: 92% (3.9/4.0)**
- **Engineering Dean's Honours**: awarded for achieving a GPA in the **top 13%** of the Software Engineering program
- Relevant coursework: Algorithms, Data Structures, Databases, Object-Oriented Programming, Operating Systems

Experience

Bank of America **Sep. 2024 – Dec. 2024**
Software Developer Co-op – *'Outstanding'* co-op rating *Toronto, Ontario*

- Worked on a prime brokerage margin engine to calculate risk metrics of **2.3 million** securities per day in **Python**
- Gained exposure to **financial markets**, option pricing, Greeks, and derivative structures across asset classes
- Engineered a scalable streaming architecture migration with pub-sub messaging queues to enhance platform resiliency

Ollon **Jan. 2024 – Apr. 2024**
Software Developer Co-op – *'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**

Code Ninjas **Apr. 2023 – Aug. 2023**
Lead Coding Instructor – *'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**

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
- Utilized **OpenAI's API** to generate question-answer pairs from OCR-parsed user-uploaded images stored in **AWS S3**
- Developed API endpoints to query a **SQL** database from **Flask** backend, enabling the site's **CRUD** functionality

Snacks-n-Daqs - Social Travel Planning | *MySQL, Python, Node, React, TypeScript*

- Facilitated group travel planning by connecting users based on shared destinations, dates, and demographics
- Developed **complex SQL queries** to generate analytics on popular destinations, trip durations, and user demographics
- Automated data generation using **Python** scripts to populate production datasets with realistic user data

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

Hobbies

Road Cycling, ***Rock Climbing***, and ***Hot Yoga*** keep me energized, focused, and ready to tackle new challenges