

# KAYNE CHU

☎ (647) 972-9298 | ✉ k33chu@uwaterloo.ca | 🌐 github.com/Kayne-cmc | 🌐 kaynechu.com

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## Skills

- **Languages:** JavaScript, HTML, CSS, C++, Java
  - **Technologies:** ReactJS, VueJS, Vuex, ExpressJS, NodeJS, MongoDB, Jest
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## Experience

**Software Engineering Intern / MCAP Mortgages – Waterloo, ON** Sept 2021 - Dec 2021

- Implemented new features and fixes for a large-scale mortgage web application using **VueJS** and **VueX**
- Gained experience with test-driven development by developing unit tests for application modules with **Jest**
- Created working branches and coordinated development releases using **GitHub** and **Microsoft Azure DevOps**
- Worked in an **Agile** environment to organize tasks and effectively manage deadlines

**Process Engineer / BWX Technologies – Cambridge, ON** Jan 2021 – Apr 2021

- Gained **problem solving skills** through the development of a timing software using **Excel VBA** for data collection
- Acquired effective **communication skills** by completing detailed summaries for other engineers
- Demonstrated **professionalism** while working with engineers and tradesmen throughout the project

**Waterloo Midnight Sun Design Team – Battery Module Supports** Sept 2020 – December 2020

- Designed supports for battery modules to prevent them from moving using **SolidWorks**
  - Collaborated with team members to create a sketch which properly incorporates the required features
  - Followed an iterative design process to meet constraints and criteria
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## Projects

**BrawlBuddies – Full Stack Web Application** [↗](#) Feb 2021 – June 2021

- Developed a website to display user stats and find players in the same region with similar in-game rank
- Implemented **JSONWebToken** to encrypt and secure user information stored in a **MongoDB Atlas** database
- Processed server requests to retrieve and update player information from **REST API** calls using **ExpressJS**
- Dynamically rendered information on application using **ReactJS** components and the **MaterialUI** library

**Workout Tracker – MERN Stack Application** [↗](#) Feb 2021 – Mar 2021

- Developed a web application to create, edit, and display workouts stored in a **MongoDB** database
- Used the **MERN** programming stack to handle POST and GET requests and create a front-end application

**Escape The Cave – Java Mobile Game** [↗](#) June 2020 – Aug 2020

- Developed a score-based mobile application that involves player interaction with a virtual character using knowledge in **Java** and **Android Studios**
- Worked through several iterations to fix issues that arose in the application

**aCADemic's Hyperloop Design** Jan 2021

- Collaborated with a team of students to develop a design for the interior of a hyperloop
  - Revised designs to meet the given challenge objectives and required features
  - Created and presented a 3D model of the hyperloop interior using **SolidWorks**
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## Education

**University of Waterloo – Waterloo, ON** 2019-2024  
**Bachelor of Applied Sciences – Mechanical Engineering Co-op**