KAYNE CHU

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Summary of Qualifications

- Experienced in **AutoCAD** and **SolidWorks** (Certified Associate)
- Strong knowledge in **C++**, **Java**, **JavaScript**, **HTML**, **CSS**, **ReactJS**, **ExpressJS**, **NodeJS** and **MongoDB**
- Knowledgeable on Dimensioning and **GD&T** communication
- Exceptional **Communication** and **Organization skills** from tutoring students while focusing on studies

Projects

BrawlBuddies – Full Stack Web Application   Feb 2021 – May 2021

- Developed a website to display user stats and find other players in the same region with similar in-game rank
- Implemented **JSONWebToken** to encrypt and secure user information stored in a MongoDB database
- Used Express and React to retrieve and display player information from **REST API** calls

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

McMaster CAD Designathon   Jan 2021

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

Waterloo Midnight Sun Design Team – Battery Module Supports   Sept 2020 - Present

- 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

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

Experiences

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

Private Math Tutor / Self Employed – Richmond Hill, ON   Dec 2018 - June 2019

- Broadened **analytical skills** by tutoring high school and elementary students in advanced functions, calculus, and other mathematical concepts
- Gained **problem solving skills** by implementing various teaching methods that catered to the individual student's needs while balancing studies with optimal **time management**

Education

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