KAYNE CHU

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Technical Skills

- Languages: JavaScript, TypeScript, Java, C++, C#, HTML, CSS
- Technologies: React, Vue, VueX, Express, Node, .Net, MongoDB, Jest

Experience

Game Developer / Al Arena - Toronto, ON

Mar 2022 - Present

- Designed and implemented core game logic for an NFT fighter game using JavaScript and THREEjs
- Proposed and implemented a method to predetermine knockout, reducing computation time by 90%
- Improved existing visual effects system to allow queuing of effects and playing multiple effects simultaneously
- Developed a solution to efficiently perform spatial hash map updates, eliminating unnecessary computations

Software Engineering Intern / MCAP Mortgages – Waterloo, ON

Sept 2021 - Dec 2021

- Implemented new features and fixes for a large-scale mortgage web application with VueJS and VueX
- Accomplished test-driven development by creating unit tests for application modules using Jest
- Organized tasks and effectively manage deadlines by working in an Agile environment

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

Projects

BrawlBuddies - Full Stack Web Application ☐

Feb 2021 - June 2021

- Created a website to get Brawlhalla user statistics and match 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 the 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 Java and Android Studios
- Worked through several iterations to fix diagnostic issues and optimize the performance of 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

Education