

ERFAN HUQ

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SKILLS

- Languages: C++, JavaScript, Typescript, HTML5, CSS3, PHP, Java, Python, SQL
- Technologies: React, Vue, Ajax, NodeJS, TailwindCSS, Yarn, ESLint, Selenium, Visual Studio, Git, Slack, Google Hangouts, SolidWorks, AutoCAD, MS Office (Word & Excel)

PROJECTS

Clay – 3D Graphics Engine

September 2020

- Built and designed an open-source **3D** graphics engine with movement capabilities **from scratch** using **C++** implementing **Object-Oriented Programming** principles and linear algebra to simulate movement within a 3D space
- Created **client-facing API** to abstract user-inputted objects to eventually project them to 2D rasterizations
- Used **Git** for version control with adherence to best source control principles in a concentrated group of developers

NoLosses – An Online Expense Tracker

August 2020

- Developed a responsive full stack expense tracker using **Vue**, **Firebase**, **Vuex**, and **NodeJs**
- Integrated backend built with **NodeJs** and **Firebase** with frontend built using **Vue**, with **Vuex** for state management
- Updates in real-time through seamless synchronization with the database and front-end

WORK EXPERIENCE

University of Waterloo – Lead Full Stack Developer

January 2021 – Present

- Designed and Implemented multiple web pages using **Vue** and **PHP**
- Used **ReactJS** in partnership with **Tailwind CSS** to build a website
- Developed a **PHP API** to pull data from a **MySQL** database and build visualizations using **LeafletJS** and **MapBox**

BGPC – Full Stack Developer

July 2020 – September 2020

- Implemented web pages using **Vue** with **Tailwind CSS** from concept through to deployment
- Collaborated with team members to implement new features and functionalities for internal development using **Ajax**, **Typescript**, and **JSON**
- Designed backend infrastructure for full stack integration with frontend components
- Worked with a distributed team and utilized appropriate version control protocols with **Git**

RELEVANT COURSES

- Data Structures and Algorithms
- Linear Algebra
- Audited Coursera course: UI/UX Design Specialization

EDUCATION

University of Waterloo

2019-2024

- Candidate for a BAsC in Mechatronics Engineering

INTERESTS

Cryptography • Artificial Intelligence & Machine Learning • Video Game Design • Drones and UAVs