

ERFAN HUQ

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SKILLS

- Languages: JavaScript, C++, Java, Python, Typescript, MATLAB, HTML, CSS, PHP, SQL
- Technologies: React, Vue, TailwindCSS, Ajax, NodeJS, Yarn
- Tools: OpenCV, TensorFlow, Visual Studio, Git, Slack

WORK EXPERIENCE

Ford – Software Developer

September 2021 – December 2021

- Implemented new functionalities using **React & JavaScript**
- Increased testing infrastructure by **5%** using **Jest**
- Worked with a distributed team under **Agile** principles and utilized appropriate version control protocols with **Git**

University of Waterloo – Full Stack Developer

January 2021 – August 2021

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

PROJECTS

Clay – 3D Graphics Engine

- Built and designed an open-source **3D** graphics engine with movement capabilities **from scratch** using **C++**
- Implemented **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 and create 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

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

RELEVANT COURSES

- Data Structures and Algorithms
- Linear Algebra
- Audited course: Machine Learning By Projects

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