




Erfan Huq

Software Engineer

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EXPERIENCE

SOFTWARE ENGINEER | FORD

September 2021 – December 2021 | Waterloo, Canada

- Applied object oriented principles in **React** to debug features and develop components for the overhaul of an entire infotainment screen
- Increased testing infrastructure by **5%** using **Jest**
- Worked with a distributed team under **Agile** principles and utilized appropriate version control protocols with **Git**

FULL STACK DEVELOPER | UNIVERSITY OF WATERLOO

January 2021 – August 2021 | Waterloo, Canada

- Designed and built multiple responsive web pages using **Vue** and utilized **PHP** to interface with remote servers
- Developed a **PHP** API to pull data from a **MySQL** database and built visualizations using **LeafletJS** and **MapBox**
- Prepared for the migration of storage from **MySQL** to **MongoDB** for future projects

FULL STACK DEVELOPER | BGPC

July 2020 – September 2020 | Waterloo, Canada

- Built custom user authentication functions using **AWS Lambda** functionality
- Collaborated with team members to implement new features and functionalities for internal development using **Ajax**, **Typescript** and **JSON**

PROJECTS

CLAY | C++

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
- Used **Git** for version control with adherence to best source control principles in a concentrated group of developers

NOLOSSES | VUE, NODEJS, FIREBASE

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

CHATTARAMA | JAVASCRIPT, NODEJS, EXPRESS

Chatroom App

- Developed messaging application with **CSS**, **HTML**, and **Vanilla JS** in **VSCode** in co-ordination with **Express**, **Socket.io**, and **NodeJs**

SKILLS

PROGRAMMING

Proficient:

C++ • JavaScript • Python • CSS • HTML • TypeScript

Experienced:

Java • MatLab

Familiar:

SQL • PHP

LIBRARIES/Frameworks

React • Node.js • Vue • Yarn • Ajax • Tailwind CSS

TOOLS/PLATFORMS

AWS • OpenCV • Express • TensorFlow • MQTT • Git

EDUCATION

UNIVERSITY OF WATERLOO

BACHELOR'S IN APPLIED SCIENCE

2019 - 2024 | Waterloo, Canada

Mechatronics Engineering

RELEVANT COURSES

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

INTERESTS

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