Hayden Hoffman
Software Engineer

haydenhoffman@gmail.com
(289)-981-3238
haydenhoffman.io
github.com/s7560m

Experience

Odd Job Handyman Services / Software Engineer
JULY 2020 - SEPTEMBER 2020, TORONTO, ON

- Worked on a web-based internal pricing tool that enables clients to acquire handyman services based on various parameters, such as the type of job being performed (e.g. installing doors, repairing sinks) and the types of materials being used.
- Consulted the owner to discuss business logic and performed rapid prototyping to build solutions while adapting to business requirement changes.
- *Technologies used: Vue.js, Firebase, Amazon EC2, Nodejs, Expressjs.*

Connect to Canada / Teaching Assistant
JULY 2019 - SEPTEMBER 2019, MISSISSAUGA, ON

- Worked as a teaching assistant at a coding summer camp to provide coding and problem solving activities and an enjoyable learning experience to ESL students.
- Assisted the teacher with setting up robotics (Arduino Uno and Sphero SPRK+) and coding activities (Scratch and Python) for the students.

Projects

YOGAI - Android / Hackwestern 7
https://devpost.com/software/yogai

- YOGAI is an android app that uses machine learning to determine if a user successfully performs a yoga pose. It tracks joints, such as elbows, knees, hips, wrists and shoulders via the user's phone camera, and determines the acute angles of each. It then tests whether these sets of joint angles are within a specified range to determine the success of their corresponding yoga poses.
- Here were my contributions to YOGAI:
  - Tying all the UIs together to create a cohesive user experience.
  - Implementing android's CameraX library to develop the app's camera functionality.
  - Processing the camera's image stream into Google ML Kit Vision's API.
  - Developing an algorithm to determine the angles of joints.

Blockchain - NodeJS
https://github.com/s7560m/blockchain-express

- Built a simple blockchain backend API using node and express that functions off of REST API calls. Some of its functions include: storing pending transactions, mining, and validating the blockchain.

Games made with HTML5 and pure javascript
https://github.com/s7560m/Pure-javascript-games

- Built games such as Snake, Pong, and more using only HTML5's canvas feature and pure javascript.

Education

University of Western Ontario / BSc Computer Science with a minor in Software Engineering
SEPTEMBER 2017 - APRIL 2022

Skills

Leadership — Successful at overseeing and managing projects via strong leadership abilities. Can recognize strengths of others to produce synergic relationships.

Communication — Able to effectively consult clients and convert business logic into functional, scalable solutions.

Hard skills — Proficient in a variety of technologies, such as: cloud computing, machine learning, AI, API and backend development, UX design, database management, and more.