AKASH SHARMA

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EDUCATION

McMaster University

Sept 2020 - May 2024 (Expected)

Bachelor of Engineering in Computer Engineering, Co-op | 3.7/4.0 Cumulative GPA

• Dean's Honours List, McMaster Honours Award

EXPERIENCE

McMaster Start Coding Oct 2021 - Present

Web Developer

Hamilton, Ontario

- Modernized the front-end for the McMaster Start Coding website to enhance user experience and attract 100+ new users
- Monitored task distribution within an **Agile environment** using **Jira team managed boards** to increase work efficiency
- Implemented Bootstrap features to improve the Google Lighthouse accessibility score by 60% across different pages
- Optimized JavaScript code to improve website performance by 20% and automated tasks using Mongo Atlas Cloud

Google Developer Student Club

Sept 2020 - Apr 2021

Full Stack Team Member

Hamilton, Ontario

- Communicated with a team of 5 full-stack engineers to discuss ideas for full-stack projects such as utilizing the Google Map API to create an app that displays the location of inputted coordinates
- Executed full-stack events that introduced full-stack development to 100+ programmers through tutorials and projects

PROJECTS

Meal Idea Generator 🗘 🖉

- Developed a full-stack web application to help users conveniently generate meal ideas on a daily basis
- Built a REST API back-end with Express, Node and MongoDB with Mongoose to add CRUD functionality to the app
- Sent HTTP requests using **Axios** to connect client with server and used **Postman** to perform **100+** API tests during development
- Constructed a **React** front-end with **React Router** for client side routing and **Bootstrap** to generate simple stylized elements
- · Created an authorization system with bcrypt.js and JWT Authentication to increase user security and protect 2 routes

Gym Registration Bot 🗘

- Developed an automatic bot using Python and Google Cloud Platform to book optimal time slots at the school gym
- Implemented a **Selenium** script to initiate an instance of Chrome that interacts with the elements of the web page to navigate through the website and **book a time slot in less than 10 seconds**
- Hosted the app on the Google Cloud Platform via a Docker Container and Google Cloud Run to reduce energy costs by 95%
- Applied Cron Jobs and the Google Cloud Scheduler to schedule the program to execute automatically at 6:30 AM every other morning, increasing number of booked sessions per month by 65%

Connect 4 (7)

- Led a team of 3 software developers to deploy a Connect 4 application using Java, allowing 2 users to play a game of Connect 4
- Incorporated **Object Oriented Programming** practices to create a player and chip class that stored data for the 2 players and each of the chips on the board, increasing scalability of the codebase
- Designed a user interface using the Java API 2D Graphics to build flexible and efficient game components to display to the user

CHIP-8 Emulator (7)

- Designed a CHIP-8 emulator using C++ with the Sample DirectMedia Layer library to emulate and play CHIP-8 ROMs locally
- Handled 34 Opcodes to instruct the CPU and tested the emulator post-development with 10+ ROMs to ensure functionality

TECHNICAL SKILLS

Languages: Python, Java, JavaScript, HTML/CSS, C, C++, Matlab, R

Libraries and Frameworks: Node.js, Express, React, Selenium, Tailwind, Bootstrap, Material-UI **Developer Tools**: Git, GitHub, Google Cloud Platform, MongoDB, Postman, Netlify, Heroku