Mithilan Muralitharan

Mechatronics Engineering & Management Graduate

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Education

September 2015 – April 2020

Bachelor of Engineering – Mechatronics Engineering and Management

McMaster University, Hamilton ON

- Graduated with Distinction standing (cumulative GPA of 10.1 of 12)
- Strong communication, organization and time management skills developed through course work
- Excellent teamwork and leadership abilities developed while working on multiple group projects

Experience

Sept 2020 – Present

Full Stack Developer | FirstScreen, Toronto ON

- Working as an independent contractor in a team of five to build out a web application that would be accessed by clients
- Developed new features on frontend using React
- Implemented backend features using Node.js and Express.js
- Designed and maintained database in MariaDB
- Developed backend RESTful APIs

May 2020 – Present

Mechatronics Engineer | Longan Vision Corp., Hamilton ON

- Working as an independent contractor in a team of six to create a modular device that would allow fire fighter helmets to stream visuals of emergency situations to a web application accessed by main centre
- Full-stack development to create web application
- Working with Apache, PHP, Flask, AWS (Elastic Beanstalk, RDS and S3)
- Hardware development involving CAD design in Autodesk Inventor

January 2020 – April 2020

Teaching Assistant | McMaster University, Hamilton ON

- Working with tutorial instructor to guide students through the use of Python to complete laboratory objectives in the Engineering Computation course
- Grading students' work and providing quality feedback in a timely and organized matter

Key Projects

August 2020
Live Streaming Car

- Ability to be controlled by Xbox controller while live streaming to local host site using Apache and WebRTC

May 2020
Resume Website

- Using HTML, CSS and JavaScript to design and deploy a functional website for potential employers to view

June 2017
Password Manager

- Created a C program that would store a user's password for various websites and can also generate a password for a website if the user desires

Skills

Technologies:
- C, C++
- Python
- HTML/CSS/JavaScript
- NodeJS, React
- MySQL
- PHP
- AWS (RDS, S3, Beanstalk)

Programs:
- Word, PowerPoint, Excel
- Adobe Photoshop
- MATLAB, Simulink
- CAD: Inventor, NX

Hobbies

- Making animated shorts/clips
- Creating graphic designs