

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 (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

March 2021 – Present

Full Stack Developer | Immigration, Refugees and Citizenship Canada, Ottawa ON

- Working in a full-time capacity to build a central account web application for new Canadians to use
- Developed frontend features using Angular
- Developed backend features using NestJS
- Worked with AWS such as EC2, S3, WAF, CloudFront and Lambda

September 2020 – December 2020

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
- Developed backend RESTful APIs
- Optimized web application code to reduce http mean latency from 916 ms on first build to 20 ms

May 2020 – November 2020

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
- Full-stack development to create web application
- Working with Apache, PHP, Flask, AWS
- Hardware development involving CAD design in Autodesk Inventor
- Recipient of the ENCQOR 5G Demonstration Program Grant

Key Projects

January 2021

Password Manager

- Created a Python program that would store username and password for various websites and can also generate a password if desired

August 2020

Live Streaming Car

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

January 2019

Automatic Fish Feeder

- Used Arduino to implement a fish feeding device where user can select number of fish from a range

Skills

Technologies:

- C, C++
- Python
- HTML/CSS/JavaScript
- NodeJS, React, Angular, NestJS
- MySQL
- PHP
- AWS

Programs:

- Word, PowerPoint, Excel
- Adobe Photoshop
- MATLAB, Simulink
- Autodesk Inventor, Siemens NX

Hobbies

- Making animated shorts/clips
- Creating graphic designs