Pravine Manivannan

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Education

McMaster University Hamilton, ON

Candidate for Bachelor of Computer Engineering and Management (Co-op) *September 2019 - Apr 2024*

- Currently maintaining a **cumulative GPA of 3.9/4.0** in level 3 of my program
- McMaster Dean's List: Year 1 to present

Technical Skills

Languages: Java, C/C++, Python, HTML, CSS, JavaScript, Assembly, MATLAB, Simulink
Technologies/Frameworks: React, SCSS, Bootstrap, Tkinter, PySerial, Git, Github, AWS
Other Technical Skills: Responsive Design, Data Structures and Algorithms. OOP, Functional Programming, Embedded Systems Programming, Quartus, ModelSim, Figma, Adobe Suite

Projects

Pacemaker DCM | University Project | *Python, PySerial, Tkinter, MATLAB/Simulink* December 2021

- Led a group of 6 students to design, develop, and integrate the **DCM** a graphical user interface programmed in **Python** using a toolkit named **Tkinter** for a pacemaker device.
- Programmed Pacemaker Device with **MATLAB/Simulink** to communicate with the User's PC via the DCM using **UART Communication protocols** to interact and display information
- Demonstrated excellent communication and organization skills by setting up regular meetings/follow-ups with teammates and performing version control between 6 members through GitHub.
- Applied knowledge of **object oriented programming, low coupled/high cohesion design, SDLC** and **information hiding** to build a robust software application
- Performed **black/white-box testing** and **unit testing** to debug and verify software
- Demonstrated strong written communication skills by documenting over **100+ pages** worth of information on requirements, module responsibilities, implementation, interface testing, and more

LIDAR Environment Scanner | University Project | *C, Python, PySerial* April 2021

- Created an **embedded system** that scans the sorrounding and creates a **3D mesh of the environment** using the TI MSP432E401Y microcontroller, and programming languages including **C** and **Python**.
- Interfaced a **time-of-flight LIDAR sensor, stepper motor,** and **microcontroller** to operate with computer via **UART** and **I2C serial communication protocols.**

Pomodoro Timer | Personal Project | *HTML, SCSS, JS* January 2022

- Using **Vanilla JS, SCSS,** and **HTML**, a simple aesthetic pomodoro timer and clock web application was created with plans to add more study utility for students to the website
- Website was designed with effective understanding of basic design principles and **responsive design** in mind

Experience

Web Development Intern Sept 2021 – Dec 2021

SnapSmile *Remote*

- Using **HTML, SCSS, Javascript,** and **JQuery**, I created several mockups of different landing page designs for effective but quick iterative prototyping
- Learnt basics of **React Development** as it allowed for quicker prototyping due to it's component based nature.
- Along with design leads, I designed wireframes with compelling, responsive, interactive **UI/UX experiences** by utilizing tools such as **Figma** and **Sketch**

Marketing Administrator May 2021 – Aug 2021

Cisnet *Scarborough, ON*

- Used the **Adobe Creative Suite** to make a variety of ad creatives for various marketing needs
- Designed and ran several Ad Campaigns on Facebook and Google Ad Platforms

VP Marketing Sep 2020 – Current

McMaster Tamil Student's Association *Hamilton, ON*

- Created engaging posters, infographics and promotional videos for use across the team's various social media platforms (Instagram, Facebook and Snapchat)
- Mentored and managed younger team members to develop their skills in Adobe Suite