Nishanth Balamohan

Contact Information

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Education

McMaster University, Hamilton, Ontario **September 2014 – 2019**
Bachelor's of Engineering - Software Engineering (Embedded Systems) (Co-op)

Skills Summary

Programming Languages
Experienced: C#, Java, Python, SQL
Familiar: C++, Elm, HTML, CSS, Matlab, Maple
Software and Technology: Git, Visual Basic, LaTeX, Robot Framework, Eclipse, Unity, IntelliJ IDEA, Android Studio, Arduino, Microsoft Office Suite, Autodesk Inventor, Vuforia, Simulink

Work Experience

Developer Co-op at **Royal Bank of Canada** Toronto, ON **August 2017 – Present**

- Developed test cases using Robot Framework, Python and Selenium WebDriver
- Migrated existing test cases over to the Protractor and Cucumber.js frameworks

AR Developer at **McMaster University** Hamilton, ON **June 2017 – August 2017**

- Developed Augmented Reality applications for iOS, Android and the Microsoft Hololens
- Wrote programs using C# and used the Unity game engine as well as the Vuforia platform

Projects

Blue Lines: Crimes in Chicago **April 2016**

- Designed a data science project that studied crime in Chicago using government datasets
- Implemented searching and sorting algorithms to help visualize the sorted data
- Employed Agile developement practices with regular scrum meetings
- Technologies used: Python, pandas, and sqlite3

SixManMorris **April 2016**

- Designed the medieval board game using the MVC software architectural pattern
- Implemented the GUI of the game using Java and the Java Swing library
- Used project management tools and concepts to assist in the development of the project

Expression Engine **October 2015**

- Developed a calculator that solves simple mathematical expressions in C++
- Enabled the program to parse and solve string representations of mathematical expressions

Volunteer Experience

Google IgniteCS Mentor **May 2017 – August 2017**

- Designed activites using Elm for students in nearby schools to learn about computer science
- Mentored students from grade 6-8 during their Elm programming workshops

Extracurricular Activities

MAC Formula Electric **September 2016 – April 2017**

- Member of the Control Systems Team and the Fault Tolerance Team
- Developed simulations using the Simulink enviroment from MATLAB

Cisco DevNet Hackathon 2016 **August 2016**

- Designed PROJECT: Hermes, software that utilized data from smartwatches to monitor the user's heartrate and detect any abnormalities
- Led the design of the communications modules implementation using Cisco's Tropo cloud API

HacktoberFest **October 2016**

- Contributed to multiple open source projects on GitHub, including updating documentation and closing minor issues