

Experience

Software Engineer

General Motors

March 2017 - Present

Developer for GM vehicles' [Infotainment System](#). Involved in development of vehicle software from 2020 to 2022.

- Designed and implemented several python automation testing tools using Python 3.7
 - Contributed to the development of an AI Image Processing tool used to pre-processes the results of automated test scripts
 - Designed and lead the implementation of a tool to automate test execution, result analysis, and report generation
- Implemented critical features for Model Year 2022 GM's Android Auto Application Launcher
 - Integrated the application with the vehicle's powermode service
 - Designed module to processes updates to the database

Software Engineer

Dell/EMC

September 2015 - January 2017

Responsible for development of [Networker Backup and Recovery Solutions](#). Heavily involved on feature improvement and maintenance of the software's server component

- Improved reliability and performance of major components within the server module
 - Identified and fixed an undiscovered denial of service vulnerability within the RPC parsers
 - Re-implemented the parallel execution of a specific server workloads for better performance and eliminated resource deadlocks
- Used Python 3.7 to create test scripts to identify and reproduce defects reported by clients

Student Developer

AMD

September 2013 - August 2014

As a co-op student, I was responsible for maintaining and extending features for several internal tools used in GPU encoding and decoding processes.

- Extended the amount of debugging information presented to engineers during GPU encoding/decoding video streams
- Assisted in porting a GPU emulator to Mac-OSX. I was responsible for building the UI application which configured and controlled the emulator

QA Intern

Minoeworks

April 2013 - August 2013

Education

McMaster University - Hamilton, Ontario

Bachelors of Engineering

2010 - 2015

Recieved my Bachelors of Engineering in Software Engineering with Co-op in the spring of 2015.

- Member of the Software Engineering Club where I was the representative to senior students

Design for Six Sigma - Green Belt

Recieved my Green belt in DFSS, for my contribution to the development of a tool to automate CAN Bus signal testing. Currently on track to receive my Black Belt in DFSS this year.

Technical Summary

Primary Skills

Java C Python CVS (Git/SVN/Perforce)

Secondary Skills

SQL Objective-C HTML5/CSS3

Development Platforms

Linux (2+ years), Android (1+ years), Mac OS X (1 year),