

Samuel Campbell | 514-654-1320 | samuel.pcampbell@gmail.com | <https://samuel-campbell.github.io/>

New graduate software engineer, with 2 years of professional experience from open source to billion dollar projects. Background includes full stack, machine learning, and embedded systems with expertise in data structures & algorithms. Transparent, willing to learn, & confident in my problem solving abilities.

Education

Concordia University, Software Engineer (June 2015 – August 2018) -- 3.71 GPA

Professional Experience

MDA (Mai 2017 – December 2017) – Software Engineer

- Saved ~100,000\$/day via collaboration of various teams to deliver automated chain line assembly.
- Designed web application to optimize time and resources lowering the cost from ~10,000\$ / hr.
- Adapted scrum methodology, unit testing, source control, & TDD for the manufacturing division.
- Contributed to the development of Oneweb, the world's biggest constellation of space satellites.

Technologies: C, C#, Git, Microsoft SQL Server, OpenCV, Python, & Telerik MVC

ADS (May 2016 – April 2017) – Software Engineer

- Saved ~10 min/build by completing application to emulate road vehicle communication protocols
- Refactored and fixed bugs from large code base with over 500,000 lines in a scrum environment.
- Performed DevOps with bash scripts and implemented Jenkins hosted with Tomcat for CI/CD.
- Delivered unique solution to automate microcontroller tests in continuous integration using FPGA

Technologies: C, C#, FPGA, Jenkins, MySQL, Python, SVN, Tomcat, & VHDL

Projects

Dota 2 Outcome Predictions (June 2018 – July 2018)

- Achieved 2% higher prediction accuracy than similar research which used 25x more data points.
- Created customized data set and performed data wrangling via web scraping and entity resolution.

Technologies: Git, Jupyter, Pandas, Python, Matplotlib, & Scikit-Learn

ProceZeus (September 2017 – April 2018)

- Created world's first open source AI powered chatbot for rental board with over 87% accuracy.
- Awarded 35,000\$ scholarship upon satisfactory completion and stakeholder's content of project.
- Designed scalable microservices hosted in customized Docker containers interacting with http

Technologies: Azure, Bash, Docker, Flask, NLTK, Spacy, Scikit-Learn, Tensorflow, Travis, & Vue.js

MCGA (January 2017 – May 2017)

- Sole group to successfully design android application for indoor/outdoor navigation at Concordia
- Awarded best engineering creativity using image processing to generate walkable indoor paths

Technologies: Android Studio, Java, Git, Travis

Programming Languages: C • C++ • C# • Java • Javascript • Python

Technologies: MongoDB • MySQL • Docker • Travis • AWS • Azure • Apache • Linux • Git • Android