

Experience

Software Developer, Defence Research and Development Canada

Sept 2017 – Apr 2018

- Developed a VR flight simulator using Unity and Oculus Rift to collect data from pilots to assess the impact of perceived depth on their performance
- Tested and implemented an Android app designed to perfectly emulate a military messaging interface and track a user's actions on the device to test the interface's usability and efficiency
- Designed a C#.NET app to collect participant data from multiple devices such as the messaging emulator; the results of which will inform future development of the project

Research Assistant, Environment and Climate Change Canada

Sept 2016 – Dec 2016

- Implemented scripts using Python, NumPy and Matplotlib to collect, analyze and visualize live weather data from instruments across Canada into web products to predict aircraft icing incidents
- Developed a robust web application using Python, JavaScript, jQuery, PHP and Bootstrap to deliver experimental weather products to military clients with minimal downtime
- Processed and organized hundreds of gigabytes of weather data into data sets using Python and NumPy resulting in improved efficiency of data analysis in our team

Research Technician, University of Toronto

May 2018 - Aug 2018

- Developed Python scripts to efficiently grade participant scores by analyzing REDCap survey data resulting in an improved efficiency of data analysis in the lab
- Implemented an iOS app which displays a series of images, collects participant response times for dismissing each picture and later tests them for additional research data
- Gained experience in time management, communication and teamwork by successfully working on multiple projects as part of 3 different teams each with their own set of deadlines

Education

Candidate, Hon. B.Sc. in Computer Science, University of Toronto

Expected Apr 2019

- Specializing in Software Engineering
- Co-President of the UofT Open Source Society

Projects

CryptoWealth

Python, Django, JavaScript, React, PostgreSQL, Heroku

- Developed a RESTful cryptocurrency advisory web application as part of an Agile team of five which analyzes cryptocurrencies to advise users to create the most optimal portfolio

NoClick

Python, JavaScript, GitHub, CircleCI, AWS

- Currently implementing a supplementary Google Chrome extension for a web app which finds the purpose of a click-bait article without having to open it

AlgoVis

JavaScript, Node, React, Heroku, Webpack, SASS

- Created a client-side general purpose visualizer for list algorithms which helps visualize list manipulations occurring in custom algorithms inputted by the user using JS Proxy object

Technical Skills

Languages

Python, Java, JavaScript, C#, C, Bash, Haskell

Web

Node.js, React, Express, CSS, SASS, Bootstrap, Flask, Gulp, Webpack

Tools

GitHub, AWS, Azure, Heroku, Docker, CircleCI, Android SDK, Unity

Database

SQLite, MongoDB, PostgreSQL, MySQL

Design

Adobe Photoshop, Adobe Premiere, Inkscape, GIMP, Final Cut Pro, 3DS Max