

Education

University of Waterloo

Honours Bachelor of Computer Science, Co-op, Sep 2012 - Dec 2017

Experience

Wave Computing, Software Engineer

May - Aug 2017, Campbell, California

- Wrote framework to test fixed-point implementations of all neural network operations in Squeezenet. Used Python, Boost Unit Test Library and TensorFlow
- Refactored C simulator for Wave's chip design into a C++ program that uses object-oriented techniques such as encapsulation, polymorphism and inheritance to make source code more readable, robust and testable
- Used CMake and build scripts to enable building C++ simulator with multiple configurations

FiveStars, iOS Software Engineer

Sep - Dec 2016, San Francisco, California

- Developed recommendation algorithm which analyzes user purchase activity and makes suggestions to discover new vendors via push notifications
- Built gifting feature into iOS app, allowing users to share promotions with their contacts. 40k users had engaged with the feature in its first month
- Worked on bug fixes and design improvements for the FiveStars iOS app, which receives 300k monthly views

Digiflare Inc, Javascript Developer

Jan - Apr 2016, Toronto, Ontario

- Launched Video on Demand feature for Vimeo's Roku application
- Fixed memory crashes by removing all memory leaks, reducing memory usage of certain screens by 40 - 60%
- Wrote profiling and logging tool for NBC Sports Roku app, allowing teams to quickly discover the cause of failure for the 2016 Summer Olympics live streams

AdvisorStream, Web Developer

May - Aug 2015, Toronto, Ontario

- Created a new contact management system that allows users to import and manage contacts
- Worked full-stack, developed REST API backend and frontend UI

Trapeze, Software Developer

Sep - Dec 2014, Mississauga, Ontario

- Developed Node.js module for auto-documentation of internal Javascript library and intellisense scripts for Visual Studio 2014
- Wrote unit tests for internal Javascript library using Karma test runner

Inkling, Product Designer

Jan - Apr 2014, San Francisco, California

- Refactored legacy SASS database to meet updated specs and provide greater modularity
- Wire-framed and wrote Javascript widgets to enrich Inkling content using JQuery and JQuery-UI
- Produced consumer facing HTML & SASS templates to ease workflow for thousands of end-users

Projects

Fifty6: Cofounded a creative studio specializing in creative direction, web design and development. Please visit 56.digital for examples of work.

Magenta: Built Node.js server for iOS application which enables users to create web pages through voice commands.

Content-Aware Image Resizing: A dynamic programming algorithm which reduces image size while maintaining image content integrity.

Skills

Languages: C, C++, Swift, Objective-C, Javascript, Java, Python, Brightscript, HTML & CSS, SASS, Lua

Frameworks & Libraries: TensorFlow, Keras, Branch.io, AngularJS, Node.js, Django, JQuery, OpenGL