

Samuel Wu

3A SOFTWARE ENGINEER

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Summary

Extensive experience in: Python, Java, Scala, Javascript, Node.js, C#, MySQL

Familiar with: MySQL, Oracle SQL, MongoDB, Angular.js, Express.js, React, OpenNLP, Tensorflow

Experience

PrimalFusion

Waterloo, Canada

FULL STACK DEVELOPER

2016

- Worked in NodeJS and Scala Play to sync user account management across multiple apps.
- Prototyped several chatbots across Facebook, Slack, Skype and other platforms applying NLP semantic search.
- Prototyped data visualization using d3.js to demonstrate how semantic search works.

WeMesh

Waterloo, Canada

SOFTWARE AUDIO RESEARCH

2016

- Developed a Mumble VoIP wrapper in C++ for Unreal Engine.
- Researched labeling chorus/verse using Fourier Transforms, Clustering and Convolutional Neural Nets.
- Developed a method of creating a loop of the most memorable part of a song, using clustering on a modified Fourier Transform Matrix.

DBRS Inc.

Toronto, Canada

FULL STACK DEVELOPER

2015

- Implemented new API to update large amounts of real-time financial data with a Drupal Framework.
- Reverse engineered legacy Java code and migrated it over to C#.
- Built administrative interface for the VP to easily monitor ongoing Financial Ratings ie. which stage of review the rating was in.

Side Projects

NBA Shot Optimization

Side Project

DATA ANALYSIS

- Performed web scraping on stats.nba.com APIs to obtain where players shot best from.
- Determined optimal 5 shot locations for certain teams by using a method similar to creating Force Directed Graphs.

Android Air Guitar

EngHack 2015

ANDROID APP

- Created an Android app to play the air guitar using a Myo armband.

3-D Chess

Side Project

HTML5 3D WebGL

- Used JavaScript WebGL to implement chess with 3D graphics.
- Developed front-end graphics display and game logic.

Education

University Of Waterloo

Waterloo, Canada

3RD YEAR B.SE. IN SOFTWARE ENGINEERING

- Received the Leslie Klein Entrance Scholarship which is given to outstanding students in the Software Engineering Dept.

Honors & Awards

36th Canada: Sir Isaac Newton Physics Contest 2013

Top 5%: American Invitational Mathematics Examination 2012-2014

Top 100 Canada: Canadian Computing Contest 2013