

Skills \_\_\_\_\_

Languages Python, Scala, Java, C++, SQL

Tools Spark, Hadoop, Kafka, Scikit Learn, Pandas, Elastic Search, AWS, Docker, Git

## Experience \_\_\_\_\_

Yelp San Francisco, California

#### SOFTWARE ENGINEER INTERN

September 2016 - December 2016

- Improved business location quality by increasing the precision and recall of a bad location detector by 15% and 8%
- Increased machine learning model performance by adding features, tightening training data criteria and developing a gold data set for testing
- Created feedback loop using in app survey questions to validate model predictions
- Optimized when survey questions about businesses were asked in order to maximize meaningful response rate and reduce bias towards common attributes

Capital One Canada Waterloo, Ontario

DATA SCIENTIST INTERN

January 2016 - April 2016

- Developed data driven web applications to help customers manage their spending
- Implemented a parallelized data pipeline to ingest terabytes of credit card transactions to create meaningful insights for customers using pySpark, Hive and SKlearn
- Added Docker support to web server for easy deployment and scaling on AWS

Loyalty One Toronto, Ontario

SOFTWARE DEVELOPER

May 2015 - August 2015

- Developed a data aggregation tool using Spark to eliminate unnecessary boilerplate code for feature generation and data obfuscation
- Parallelized existing data aggregation processes to reduce run times by 100 times
- Executed large scale performance testing on over 80 terabytes of data to optimize resource allocation when performing data aggregation on AWS
- Prototyped an end to end data streaming pipeline using Spark, Kafka and Elastic Search to do real time analysis on adverstising campaigns
- Deployed projects to local Hadoop Clusters and AWS EC2 clusters of over 300 machines

# Personal Projects \_\_\_\_\_

### Tagger Python

An automatic mp3 attribute tagger

- Performs filename analysis to infer artist and song title, based on research done by Sony CSL
- Queries and matches against data from online music databases

## Straights C++|GTK+

A card game that supports upto 4 human/AI players and features a complete GUI.

#### MeetMe Javascript | Google Maps API

A Google Maps application that finds the closest meeting location, such as a coffee shop, between multiple points

Education \_\_\_\_\_

University of Waterloo

Waterloo, Ontario

CANDIDATE FOR BACHELOR OF SOFTWARE ENGINEERING

2014 - 2019 (Expected)