Wojtek Swiderski

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Skills _

Languages Python, C/C++, Java, Golang, JavaScript (ES6), Scala

Technologies Flask, Tornado, Thrift, MySQL, PostreSQL, Redshift, HBase, Spark, scikit-learn, Tensorflow, OpenCV, React, Redux

Tools Unix, Bash, Git, Vim, IntelliJ, Sublime Text

Experience __

Oscar Health New York, New York

SOFTWARE ENGINEERING INTERN

May - August 2017

• Working on improving the relevancy of doctor search using learning to rank methods

- · Designed framework for labeling datasets to be used in training and evaluation of machine learning models
- · Built ranking comparison tool in React and Redux used by different teams to decide on which ranking strategies to deploy
- Developed service that approximates travel time from member to doctor using Google's S2 library

QuoraMountain View, California

SOFTWARE ENGINEERING INTERN

August - December 2016

- Launched machine learning model for related questions ranking that increased signups by 5.5%
- Ran A/B tests to measure the online performance of related questions ranking models (mainly ensembles of trees)
- Decreased training time **from 3 hours to 5 minutes** by parallelizing extraction of natural language features such as Word2Vec and TFIDF similarities and historical features such as question covisits
- Refactored caching layer for related questions resulting in 90% less lines of code and removal of a deprecated caching abstraction

Uber San Francisco, California

SOFTWARE ENGINEERING INTERN - UBER FOR BUSINESS

January - April 2016

- · Individually built three language agnostic services responsible for centralized payments using Python/Tornado and Thrift
- Deployed the services multiple times per day to Uber's cloud where they could be scaled to serve millions of users globally
- · Architected payment transaction service used to route transactions to data centers in accordance with international data privacy laws
- Migrated payment account metadata from PostgreSQL to Schemaless (Uber's wide column datastore); sharded data and built indices to **allow for constant time queries**

Sony Creative Software

Waterloo, Ontario

SOFTWARE ENGINEERING INTERN

May - August 2015

- · Build features for Sony Catalyst series of three cross-platform applications for professional video preparation and editing
- Developed APIs for UI components such as context menus used by all three applications; built with C++ and the Ot Framework
- · Designed and implemented a cross-platform framework for handling mouse and key system events

Personal Projects _____

Glacier

• Distributed blockchain wide column database on top of RethinkDB with features like permission control and changefeeds

Various Machine Learning Projects

- Experimented with applying semi-supervised learning to whitebalance illuminant estimation (undergraduate research assistant)
- Used Caffe to implement a human pose estimator using a pre-trained convolutional neural network from a paper by Shih-En Wei
- Implemented a machine learning library including algorithms from Andrew Ng's Cousera course in C++

Sunami Music Player Google Play Store

• Android music player that offers smart song suggestions from your local library using a genre graph and historical user data

Education _

University of Waterloo

Waterloo, Ontario

CANDIDATE FOR BACHELOR OF SOFTWARE ENGINEERING

2014 - 2019

- Engineering and Mathematics Dean's Honours List (93.5% Cumulative Average)
- First in Class Engineering Scholarship