Wojtek Swiderski

□+1-416-317-0133 | ■ wojtek.technology@gmail.com | □ wojtechnology | □ wojtechnology

Skills _

Languages Python, C/C++, Java, JavaScript, Scala

Technologies Spark, Tornado, Flask, Redshift, HBase, PostgreSQL, MongoDB, Kafka, Thrift, scikit-learn, Tensorflow, OpenCV

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

Experience _____

Quora Mountain View, California

SOFTWARE ENGINEERING INTERN

August - December 2016

- Trained and experimented with multiple machine learning models for related questions ranking; increased signups by 5.5%
- Built pipeline for training above models (logistic regression, gradient boosted decision trees, random forests) and evaluating them using AUROC and NDCG; decreased training time from 3 hours to 5 minutes by parallelizing feature extraction
- Refactored caching layer for related questions resulting in 90% less lines of code and removal of a deprecated caching abstraction
- · Used Spark to train a collaborative filtering model (ALS matrix factorization) on a matrix with hundreds of millions of items

Jber San Francisco, California

SOFTWARE ENGINEERING INTERN - UBER FOR BUSINESS

January - April 2016

- Individually built three platform services responsible for centralized billing and cross data center transactions using Python/Tornado
- Architected payment transactions services to scale to millions of users globally and to replicate data across multiple data centers
- Migrated payment account metadata from PostgreSQL to Schemaless (Uber's scalable datastore); sharded data and built indexes to allow for constant time queries
- Employed MVCS design paradigm and polymorphism to support quick implementation of additional payment methods
- Used Thrift to create language agnostic service interfaces and to maintain a scalable codebase in Uber's service-oriented architecture

Sony Creative Software Waterloo, Ontario

SOFTWARE ENGINEERING INTERN

May - August 2015

- · Worked on 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 Qt Framework
- Designed and implemented a cross-platform framework for handling mouse and key system events
- Implemented a core feature which detects and corrects flash bands in media
- · Worked with and debugged a large, multi-threaded codebase shared between multiple applications

Personal Projects

Human Pose Estimation CAL HACKS 3.0

- Used Caffe to implement a human pose estimator using a pre-trained convolutional neural network from a paper by Shih-En Wei
- Currently working on training a convolutional neural network regressor from deeppose by Google Research using Tensorflow

Answer Summarization QUORA OFFROAD

- Experimented with summarizing Quora answers using the Berkeley Document Summarizer
- · Prepared answers for summarization by building their parse trees, resolving coreferences and applying named entity recognition

Machine Learning Library

• Implemented a neural network, support vector machine and other algorithms from Andrew Ng's machine learning course in C++

Sunami Music Player Google Play Store

- · Implemented smart suggestion system for music using a graph of genres generated with the Echo Nest API
- · Architected the Android application using asynchronous methods and image caching resulting in a smooth and responsive UX

Education

University of Waterloo Waterloo, Ontario

CANDIDATE FOR BACHELOR OF SOFTWARE ENGINEERING

• Engineering and Mathematics Dean's Honours List (GPA 4.0/4.0)

2014 - 2019