

# Wojtek Swiderski

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## Skills

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**Languages** Python, C/C++, Java, JavaScript, Scala, Go  
**Technologies** Tornado, NodeJS, Flask, Apache Kafka, Apache Thrift, Android SDK, PostgreSQL, MongoDB  
**Tools** Vim, Bash, Git, IntelliJ, XCode, Visual Studio

## Experience

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### Uber Technologies Inc.

*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
- Employed MVCS design paradigm, Apache Thrift interfaces and polymorphism to support quick implementation of additional payment methods and to maintain a scalable codebase in Uber's service-oriented architecture
- Migrated payment account metadata from PostgreSQL to Schemaless (Uber's scalable datastore); sharded data and built indexes to allow for constant time queries
- Used **Apache Kafka** and **Grafana** for logging and monitoring respectively

### 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**
- Implemented and debugged a feature which detects and corrects flash bands in media
- Worked with and debugged a large, multi-threaded codebase shared between multiple applications

### CrowdSponsor

*Waterloo, Ontario*

DEVELOPER

*February - August 2015*

- Built and deployed entire back end for crowdsourcing website for startups using **Python** and the **Django Framework**
- Implemented campaign analytics tool that aggregates and denormalizes data gathered from Facebook and Google APIs about page visitors and contributors
- Developed user registration using Facebook Login as well as single sign-on comment threads with Disqus

## Personal Projects

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### 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
- Added online music search and streaming using the SoundCloud API

### GlassBoard

HACK THE NORTH 2015

- Built augmented reality Google cardboard application that allows users to interact with visual overlays using their hands
- Implemented face and point detection using OpenCV as well as messaging using the Twilio API

### Chordi.co

PENNAAPS XII

- Developed web app that procedurally generates music, taught with data from real artists
- Implemented music generation using a feedforward neural network with a training set of chord progressions from popular songs

### IntoxicM8

ANGELHACK TORONTO 2015

- Created a service that uses a support vector machine and sensor data from an Android device to determine if a user is intoxicated
- Implemented pipeline to train models for individuals using their weight, size, gender, etc.

## Education

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### University of Waterloo

*Waterloo, Ontario*

CANDIDATE FOR BACHELOR OF SOFTWARE ENGINEERING

*2014 - 2019*

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