

# Wojtek Swiderski | Software Engineering - UWaterloo

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## Skills

**Languages:** C/C++, Java, Python, JavaScript, LabVIEW, Octave,  $\text{\LaTeX}$ , HTML, QML, CSS

**Technologies:** Qt, Android SDK, Django, Tornado, NodeJS, PostgreSQL, MongoDB, AngularJS, JQuery

**Services:** AWS, Github, Perforce, [Google, Facebook, SoundCloud, Echo Nest] API

**Tools:** Git, Sublime, Android Studio, XCode, Visual Studio, Vim, Bash, Fish Shell, MacOSX, Ubuntu

## Experience

### Sony Creative Software

Waterloo

*Software Engineer*

2015

Worked on *Sony Catalyst* series of applications for professional video preparation and editing with developers around the world

- Developed APIs for UI components such as context menus used in all three Catalyst applications
- Implemented and debugged a feature which detects and corrects flash bands in media
- Worked with and debugged a large and complex code base shared between multiple applications
- **Tools:** C/C++, Qt Framework, QML and Javascript

### CrowdSponsor

Waterloo

*Co-Founder and Lead Backend Developer*

2015–present

Crowdsourcing website with focus on supporting startups and promoting brand awareness

- Implemented campaign analytics that aggregates data gathered from Facebook and Google APIs about page visitors and voters
- Developed user registration using Facebook Login as well as single sign-on comment threads with Disqus
- Designed the database schema and wrote automated tests for the server code
- **Tools:** Django, PostgreSQL, Facebook Graph API, Google Geolocation API, AWS EC2, and Ubuntu

## Personal Projects

### Sunami Music Player | Google Play Store

Repository 📄

Android application that plays music based on your current preferred genre and song playback history

- Implemented smart suggestion system for music using a graph of genres generated with the Echo Nest API
- Architected the application using asynchronous methods resulting in a smooth UX
- Added online music search and streaming using the SoundCloud API

### LANParty | UWaterloo EngHack Spring 2015

Repository 📄

Play music from your library on someone else's phone over wifi

- Implemented mobile server that allows for music streaming between Android devices over wifi

### IntoxicM8 | AngelHack Toronto 2015

Repository 📄

Android application that detects when you are intoxicated and helps you get home safely

- Created a web service that uses a support vector machine to determine if a person is intoxicated based on multiple factors
- **Tools:** Tornado, MongoDB, Google Roads and Maps API

### WoahPaper

Repository 📄

Android application that allows users to change the wallpaper of other users' devices

- Developed all aspects of the application including the Android client and the server
- **Tools:** Android Studio, Java, NodeJS, MongoDB and Google Cloud Messaging

### CityKit | 24 Hour Startup Hackathon Communitech

Repository 📄

A web application that displays local events on a map using Kitchener open data

- Developed the server backend which parses Kitchener open data for relevant events
- **Tools:** Ubuntu, Apache, NodeJS, MySQL and Google Maps API

## Education

### University of Waterloo

Waterloo

*Candidate for Bachelor of Software Engineering, GPA 4.0/4.0*

2014–2019

- Engineering and Mathematics Dean's Honours List for 1A and 1B terms