Wojtek Swiderski | Software Engineering - UWaterloo

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Skills

Languages: C/C++, Java, Python, JavaScript, LabVIEW, Octave, 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:** Python, Django, PostgreSQL, Facebook Graph API, Google Geolocation and Analytics API, AWS EC2, and Ubuntu

Personal Projects

GlassBoard | Hack the North 2015   Repository
Augmented reality Google cardboard application that allows users to interact with visual overlays
- Implemented face and point detection using OpenCV as well as messaging using the Twilio API
- Created with NodeJS, Socket.io, WebGL, HTML5 canvas, OpenCV and Twilio API

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

Chordi.co | PennApps XII   Repository
Procedural 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
- Created with Python, Flask and PyBrain

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
- Developed a web service that uses a support vector machine to determine if a person is intoxicated based on multiple factors
- Created with Python, Tornado, MongoDB, Google Roads and 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