Joshua Kalpin

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Technical Skills

Proficient Languages: C, C++, Ruby, Java, Objective-C, C#
Familiar Languages: Python, Bash, JavaScript, LaTeX, MATLAB, SQL
Frameworks : Sinatra, iOS, Web API, UWP, Guava, Guice, Protocol Buffers, HBase, Django

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Experience

Software Engineering Intern - Analytics and Reporting   **San Francisco, CA**
Square   *August 2015 – Present*

- Currently developing improvements to the Analytics and Reporting Infrastructure in Java

SDE Intern - Internet of Things (IoT)   **Redmond, WA**
Microsoft   *January 2015 – April 2015*

- Created the "Out of Box Experience" and startup app for Windows 10 IoT Core
- Developed a tool to help port existing Win32 and WinCE applications to Windows 10 IoT Core
- Led the open source development efforts for the IoT Developer Experience team
- Researched and prototyped the required changes needed to bring Node.js to Windows 10 IoT Core

SDE Intern - Azure Active Directory (AAD)   **Redmond, WA**
Microsoft   *May 2014 – August 2014*

- Developed performance enhancements for the AAD Graph API in C#
- Re-architected the AAD Graph API to use ASP.NET WebApi instead of WCF DS
- Researched the feasiblity of using an experimental tool to generate client SDKs

Engineering Intern - iOS   **San Francisco, CA**
Lookout Inc.   *August 2013 – December 2013*

- Designed a framework to provision iOS devices on specific carrier networks
- Developed a prototype of the iOS RESTful Contact Backup in a 24-hour hackathon
- Hacked the Android emulator to allow for new malware detection capabilities

Mobile Applications Developer - iOS   **Waterloo, ON**
Enflick Inc.   *December 2012 – April 2013*

- Completed a technical rewrite and visual redesign of the TextNow iOS application

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Projects

Sana Protocol Builder A web application for developing medical procedures to use with the Sana Platform
CocoaPods: Made numerous improvements to the iOS and OS X package manager
Gimgur Server: A small Sinatra app that creates Imgur albums when given a list of images
OS WOW: A small operating system written for ARM Cortex-M3 designed with a micro-kernel architecture

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Education

University of Waterloo   **Waterloo, ON**
Candidate for a Bachelor of Software Engineering (BSE)   *2011 – 2016*

Activities and Interests

- Organizer of SE Hack Day, an event for creating and sharing cool projects
- Vice President Education for the Waterloo Engineering Society
- Budding audiophile and lover of a wide variety of music; especially progressive rock/metal and classical
- Huge science fiction and fantasy nut with favourite authors including Brandon Sanderson and Isaac Asimov