

Joshua Kalpin

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Technical Skills

Proficient Languages: C, C++, Ruby, Java, Objective-C, C#

Familiar Languages: Python, Bash, JavaScript, L^AT_EX, MATLAB, SQL

Frameworks : Sinatra, iOS, Web API, UWP, Guava, Guice, Protocol Buffers, HBase, Django

Experience

Software Engineering Intern - Analytics and Reporting

San Francisco, CA

Square

August 2015 – December 2015

- Developed improvements to Analytics and Reporting infrastructure in Java
- Localized reporting and tax features for Australian merchants
- Developed a new system for creating and updating feature flags

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 feasibility 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
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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

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