

# Joshua Kalpin

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## Technical Skills

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

**Familiar Languages:** Python, Bash, JavaScript, L<sup>A</sup>T<sub>E</sub>X, MATLAB, SQL

**Frameworks :** Sinatra, iOS SDK, PostgreSQL, Web API, Universal Windows Apps

**Software:** Git, Jenkins, GDB, Valgrind, Visual Studio, XCode

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## Experience

### SDE Intern - Internet of Things (IoT)

Microsoft

Redmond, WA

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)

Microsoft

Redmond, WA

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

Lookout Inc.

San Francisco, CA

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

Enflick Inc.

Waterloo, ON

December 2012 – April 2013

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

### Ninja Software Developer

Salesforce.com - Work.com

Toronto, ON

April 2012 – August 2012

- Developed both client- and server-side features in Java for the Work.com platform
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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

Candidate for a Bachelor of Software Engineering (BSE)

Waterloo, ON

2011 – 2016

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## 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