

# 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 and APIs:** Sinatra, iOS, JUnit, PostgreSQL, ASP.NET Web API

**Tools:** Windows, OS X, Ubuntu, Git, Jenkins, GDB, Valgrind, Visual Studio

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## Experience

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

Microsoft

Redmond, WA

January 2015 - Present

- Currently improving the developer experience for the Internet of Things

### 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

### Core Contributor

CocoaPods

Open Source

October 2013 – August 2014

- Developed enhancements for the linter to improve code coverage and quality

### 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 – 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

**Gimgur Server:** A small Sinatra app that creates Imgur albums when given a list of images

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## Education

### University of Waterloo

Candidate for a Bachelor of Software Engineering (BSE)

Waterloo, ON

2011 – 2016

### William Lyon Mackenzie Collegiate Institute

Ontario Secondary School Diploma

North York, ON

2007 – 2011

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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