

# Joshua Kalpin

🌐 joshuakalp.in • ✉ jkalpin@uwaterloo.ca • 🗣 Kapin • 🐦 @joshkalpin

## Technical Skills

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

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

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

## Work 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

### Mobile Applications Developer - iOS

**Waterloo, ON**

*TextNow (formerly Enflick)*

*December 2012 – April 2013*

- Completed a technical rewrite and visual redesign of the TextNow iOS application in Objective-C
- Developed highly flexible and dynamic user interfaces for TextNow
- Designed an automated testing framework to significantly increase iOS test coverage

### Ninja Software Developer

**Toronto, ON**

*Salesforce.com - Work.com (formerly Rypple)*

*April 2012 – August 2012*

- Developed both client- and server-side code in Java using GWT with test-driven development
- Collaborated on the design and development of front-end and REST APIs for search and notifications
- Completed UI overhauls on emails and parts of the Work.com application in HTML and CSS

## 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

*Bachelor of Software Engineering (BSE)*

**Waterloo, ON**

2011 – 2016

- Overall Average: 86%
- Term Dean's Honours: Fall 2011, Spring 2013, Fall 2014
- Engineering Society Representative, WEEF Representative for Software Engineering
- Participated in numerous open houses and outreach events for Software Engineering.

### William Lyon Mackenzie C.I.

*Ontario Secondary School Diploma*

**North York, ON**

2007 – 2011

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## Volunteer Experience

### Vice-President Education

*Waterloo Engineering Society*

**Waterloo, ON**

May 2014 – August 2015

- Represented the engineering student body on academic and co-op issues at a number of university- and faculty-wide committees
- Held co-op accountable for repeated delays to the new job application system Waterloo Works
- Created surveys to gather student opinion on workplace safety, work-term reports, and scheduling
- Ran the first ever society-run career fair, with hundreds of students in attendance

### Student Services Commissioner

*Waterloo Engineering Society*

**Waterloo, ON**

January 2014 – April 2014

- Managed a team of directors to run services and workshops for the society.

### Volunteer/Director

*Waterloo Engineering Society*

**Waterloo, ON**

January 2012 – April 2016

- Ran a number of events as a director for the society including Resume Critiques, Course Critiques, Charity Bottle Drive and POETS.
- Participated on the Sponsorship, Engineering Capital Improvements Fund and Teaching Award Committees

### Orientation Leader

*University of Waterloo*

**Waterloo, ON**

September 2012 – September 2015

- Participated as a leader in three orientation weeks.
- "Big" in 2012, "Huge" and Software Director in 2014, and "Edcom" in 2015

### Writer/Copy Editor

*The Iron Warrior*

**Waterloo, ON**

January 2012 – April 2016

- Wrote many articles and participated in copy editing for the newspaper
  - Won the Iron Pen award for most words written in Fall 2012
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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