

# Joshua Kalpin

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## Technical Skills

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

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

**Frameworks and APIs:** iOS, Android, Swing, GWT, JUnit, PostgreSQL, Appium, Bacon

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

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## Experience

### Core Contributor

*CocoaPods*

**Open Source**

*October 2013 – Present*

- CocoaPods is a dependency manager, similar to bundler, for iOS and OSX applications
- Completing a refactor of the linter to improve its code quality and scalability
- Developed multiple improvements to increase validation coverage on the linter

### Engineering Intern

*Lookout Inc.*

**San Francisco, CA**

*August 2013 – December 2013*

- Designed a method of provisioning devices for premium features on specific carrier networks
- Developed the client-side implementation of RESTful Contact Backup in a 24-hour company-wide hackathon
- Hacked the Android emulator in C to allow for the configuration of previously hard-coded properties
- Expanded test automation for the Lookout iOS app in Ruby using Appium

### Mobile Applications Developer

*Enflick Inc.*

**Waterloo, ON**

*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

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

**Toronto, ON**

*April – 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
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## Projects

**UW Weather:** An Android weather app that interfaces with the weather station at the University of Waterloo

**Morse Code Translator:** An English to Morse code translator, programmed in Java, with basic I/O

**This Resume:** This resume is written in L<sup>A</sup>T<sub>E</sub>X with the source code on GitHub

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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
- Student Services Commissioner for the Waterloo Engineering Society
- Writer and Editor for the Iron Warrior, the Waterloo Engineering Newspaper
- 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