

# Andrew Gapic

## 2A Software Engineering

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github.com/agapic

905-870-9478

**Languages:** Javascript, SQL, Python, Java, C/C++, HTML/CSS

**Technologies:** Linux (Ubuntu, Kali), UNIX, Git, SVN, PostgreSQL, Oracle, Node.js, Handlebars.js, Parse, Grails, Android Studio, Bootstrap, IntelliJ, Burp Suite, IDA, Brackets, jQuery, Angular.js, Dokku

**Interests:** Information Security, Web Applications, Varsity Track and Field, Powerlifting, Toastmasters

## Experience

- **Canadian Blood Services** Ottawa, ON  
Software Developer *May 2015 - Sept. 2015*
  - Developed and designed a Grails web application from scratch; migrated Lotus Notes data to Oracle and set up a relational database as the backend.
  - Created user cases and continuously prototyped applications using the agile development methodology.
  - Implemented the Google Maps API on several applications and solved a critical SSL certification issue.
- **Tech Retreat** Waterloo, ON  
Organizer *April 2015 - Present*
  - Organized and planned a summer hackathon and learnathon for over 150 high school students.
  - Coordinated event logistics and facilitated team work and discussion between participants.
  - Created "capture the flags" to demonstrate the importance of security in web applications. Code available on Github.
- **State Street** Toronto, ON  
Pricing Specialist *Sept. 2013 - Sept. 2014*
  - Designed several applications using VBA, increasing productivity by over 50%.
  - Performed due diligence on potentially incorrectly priced securities using the Bloomberg and Reuters pricing terminals.

## Side Projects

- **Abracadabra** *Aug. 2015 - Sept. 2015*  
<http://abra.andrewgapic.com>
  - Wrote a Node.js web application that analyzes major gameplay changes for League of Legends using a sample size of 400,000 matches.
  - Designed the frontend using HTML, CSS, jQuery, and Handlebars.js.
  - Implemented the backend by storing 400,000 API requests in a PostgreSQL database and deployed the application using Dokku.
  - Code available at <https://www.github.com/agapic/abracadabra>
- **The North Bank** *May 2015 - Aug. 2015*  
<https://github.com/agapic/HTN-2015-ARG>
  - The North Bank is a CTF created for Hack the North with a team of four people.
  - Implemented a tree of six servers as nodes which held a public key (or flags). Key concepts involved include integer overflow, TCP/IP, the Shellshock exploit, hash functions, and race conditions.
- **Flickr Photo Collector** *Jan. 2015*  
<https://github.com/agapic/PhotoCollector>
  - Developed an Android application utilizing MVC that displays Flickr's most recent photos using Loopers and Handlers.
  - Utilized Android's HTTP networking to parse and display photo captions with the REST API.

## Education

- **University of Waterloo** Waterloo, ON  
Candidate for Bachelor of Software Engineering *Sept. 2014 - Present*