

Andrew Gapic

2A Software Engineering

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github.com/agapic

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

Technologies: Linux (Arch, 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**
<http://abra.andrewgapic.com> *Aug. 2015 - Sept. 2015*
 - 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**
<https://github.com/agapic/HTN-2015-ARG> *May 2015 - Aug. 2015*
 - 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**
<https://github.com/agapic/PhotoCollector> *Jan. 2015*
 - 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*