

Jonathan Koff

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Software

- Apple's Developer Tools
- Perforce and Git
- Apache, MySQL and Memcached
- Adobe Photoshop

Operating Systems

Familiar with:

- Mac OS X
- Linux
- Windows (XP, Vista, 7)

Programming

- C and C++
- PHP and MySQL
- HTML, CSS and Javascript
- Functional programming in Scheme
- ARM assembly; low-level optimization
- Some experience with:
 - Java
 - Objective-C (and Cocoa)
 - Python (and Django)
 - Ruby (and Rails)

Education

- Candidate for a Bachelor of Computer Science, University of Waterloo, Class of 2013
- Ontario Secondary School Diploma, Northern Secondary School Gifted Program, 2009

Awards

- Honourable Mention, Facebook Waterloo & Toronto Camp Hackathon **2011**
- Merit Scholarship, University of Waterloo **2009**
- Silver Medal, FIRST Robotics Competition Waterloo Regional **2009**
- Distinction, UWaterloo Euclid and Fermat Mathematics Competitions **2008-09**
- Distinction, UWaterloo Canadian Computing Competition Senior Division **2008-09**
- Distinction, Sun Life Financial Canadian Open Mathematics Challenge **2008**
- OAPT Physics Contest, Second Place for Northern Secondary School **2008**
- Gold Medal, Tech in the City Operating Systems Competition **2008**
- Gold Medal, TDSB division - Skills Canada Robotics Competition **2007**
- Silver and Gold Medals, Tech in the City Game Dev. Competition **2006-07**
- Honourable Mention, Enterprise Toronto & TDSB Business Plan Competition **2006**

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Work Experience

Significant personal programming projects

- Audio Visualizer for Mac using Objective-C, QTKit, Cocoa, and OpenGL 2007
- VoIP client using Objective-C, C++ , Cocoa, MTCoreAudio, and BSD sockets 2006
- Popular BLP2 image viewer using Objective-C, Cocoa, and OpenGL 2005

Software Engineering Intern, Google

May 2011 – Aug. 2011

Currently working with the Travel Ads team at Google in Mountain View.

Lead Developer, SimplePost.ca

Feb. 2011 - Present

Working on a free service to help Canadians create, address, and send mail to federal politicians, which we launched March 1st, 2011. Uses PHP (with Kohana framework), CouchDB, node.io.

Lead Developer, ClassMate

May 2010 – May 2011

Working on a website to help students research, organize and discuss courses, with: a discussion system; user profiles and private messaging; scraping of university websites; features for organizing courses (favourites, recently viewed, etc.); features for finding courses (search, recommendations, similar courses, etc.); features for rating/reporting resources; a daemon that asynchronously fetches/caches external resources; and an AJAX UI using Backbone.js and jQuery.

Embedded Systems Software Developer, Research In Motion

May 2010 – Aug. 2010

Worked in the Output team of the Operating Systems group at RIM. Responsibilities included working on LCD firmware and drivers, developing test applications and unit tests, and optimizing and profiling C and ARM assembly code.

Developer, Uptown Yonge

Mar. 2009 – Dec. 2009

Developed a website for the Uptown Yonge area, including a dynamic store directory with ~350 stores and a content management system. Uses PHP, Joomla, MySQL.

Independent website developer

BerlingDesignBuild.com (2006) LineTroster.ca (2006) SueBochner.com (2008)
AsianArtsandCultureInstitute.org (2009) MIIRCAM.ca (2009)

Interests

Artificial intelligence, algorithms, distributed systems, mathematics, Go.