

Michael Parrott

3A Computer Science

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github.com/mjparrott

Skills

Languages: Scala, Python, Java, C++, C, Ruby, Bash, Racket, PHP, JavaScript, HTML, CSS

Frameworks: Sencha Touch, PhoneGap, Slick, specs2, Lettuce, jQuery, Lawnchair.js, Yii

Tools: Git, Chef, Cassandra, MySQL, Thrift, Memcached, SBT, Linux, Eclipse, Vim

Work Experience

Software Engineer, *PagerDuty*, Toronto, ON

August - December 2014

- Worked on the notification creation service at PagerDuty in Scala, making improvements and fixing bugs for the processing of notifications
- Created a data archiver using Slick to archive old customer data from Cassandra to a MySQL database
- Wrote scripts in Scala and Bash to index and delete data in Cassandra
- Investigated datacentre preference in Netflix's Cassandra client, Astyanax, and how our Thrift client, Finagle, performs load balancing and request retries

Software Developer, *Arctic Wolf Networks*, Kitchener, ON

January - April 2014

- Developed multiple services in Python, including one which used Memcached to cache URL categorization requests sent to an external web service
- Used Chef to manage configuration of attributes and services on Ubuntu nodes
- Sped up parsing of string output from WMIC utility by a factor of 60
- Worked on Python scripts to help automate the creation process of custom Debian packages
- See github.com/rtkmparrott for contributions to open source Chef cookbooks

Software Developer, *Metroland (Save.ca)*, Markham, ON

May - August 2013

- Created responsive web pages including an FAQ page, the deals page, and the home page with PHP, Yii, MySQL, jQuery, HTML, and CSS for Save.ca
- Implemented infinite scroll of content for deals and flyers pages

Mobile Developer, *SharpSchool*, Toronto, ON

July - August 2012

- Developed native mobile web applications for Android and iOS using the Sencha Touch 2 JavaScript framework and PhoneGap

Education

Candidate for Bachelors of Computer Science, Honours Computer Science, University of Waterloo, Waterloo, ON, September 2012 - Present

Dean's Honours List, Fall 2012/Winter 2013/Fall 2013/Spring 2014

President's Athlete Academic Honour Roll, Fall 2012/Fall 2013

President's Scholarship of Distinction, September 2012

Relevant projects: WLP4 compiler, Chess, Faux Racket interpreter

Projects

Myo Muscles

September 2014

- Fitness app built at the Hack the North hackathon for Thalmic Labs' Myo to help people keep track of their workout and exercise form at the gym

Cap It

February 2014

- Social game where friends can rate captions they make on each other's old Facebook photos
- Developed for the Facebook 2014 hackathon using PHP, PostgreSQL, and the JavaScript Facebook API

GDC (GNU D Compiler)

September 2009 - November 2010

- Revived development of the open source GDC compiler for the D programming language
- Merged in new DMD (Digital Mars D) compiler front end releases and fixed GDC specific bugs

Extracurriculars

Programming

- Programming contests: Google Code Jam, Waterloo ACM team qualifiers, Facebook Hacker Cup, TopCoder, CCC, ECOO, and DWITE
- Coursera courses: Computer Networks, Machine Learning, Algorithms, Functional Programming in Scala, and Principles of Reactive Programming

Athletics

- Pitcher for the University of Waterloo varsity baseball team, Fall 2012/Fall 2013