

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, OS X, Eclipse, Vim

Work Experience

Realtime Software Engineer, *PagerDuty*, Toronto, ON August - December 2014

- Worked on the notification management 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, stored in Amazon's RDS, archiving millions of notifications in production
- Wrote scripts in Scala and Bash to index and delete data in Cassandra
- Investigated datacentre preference in Netflix's Cassandra client, Astyanax, and how the 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 infrastructure 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 for Save.ca with PHP, Yii, MySQL, jQuery, HTML, and CSS
- 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 (C++), Chess (C++), Faux Racket interpreter (Racket)

Projects

Myo Muscles September 2014

- Fitness app for Thalmic Labs' Myo to help keep track your workouts and exercise form at the gym
- Built at the Hack the North hackathon in C++ with the Myo SDK and Allegro library for graphics

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