

# John Alfred Nathanael Chee

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San Francisco, California

## INTERESTS

Understanding abstractions, applying them in practice. Writing simple code. Writing robust code.

## PROFESSIONAL EXPERIENCE

**Twitter** (San Francisco, California)

Software Engineer, January 2013 – Present

**MyLife** (Mountain View, California)

Software Engineer, May 2010 – January 2013

- ▶ As a Software Engineer, I accepted the task of development, automation and deployment of our search service to our front end team. This involved developing expertise with Hadoop, Lucene and an internal MapReduce flow control tool. I developed a scalable Hadoop-based geocoding solution for our document corpus. I advocated for the use of open standards (HTTP, JSON and Thrift) and modern source control (Git).
- ▶ As MyLife's current and future needs became apparent, I developed a low latency, highly available and scalable search solution based on Cassandra and Solr. MyLife's new search platform removed the need for deployment of Lucene indexes, which effectively eliminated high-latency delivery of our search service. The search service was always up to date within the past 10 minutes. The new search service was an HTTP based service-oriented-architecture written primarily in Python using capistrano for deployment and [Supervisor](#) for administration.

**Prospectus Group** (Portland, Oregon)

Systems Administrator, March 2006 – August 2006

- ▶ As a systems administrator, I installed and configured a small secure network of 5 Linux servers. I also managed our production website with a perl-based Content Management System.

**Pacific Benefits Group**

Information Technology Intern, November 2005 – March 2006

- ▶ As an information technology intern, I built, installed, and configured 50 workstations. Additionally, I managed specialized insurance data mining tools.

## RESEARCH

**Portland State University, Department of Computer Science** (Portland, Oregon)

Research Assistant: [Project 10-9](#), January 2007 – August 2009

- ▶ As a research assistant on [Project 10-9, an Open Voice Bridge](#), I worked on a team to integrate [CMUSphinx](#) with an existing MS Access query tool. 10-9 is primarily developed using Java and Subversion.

**Portland State University, Department of Civil Engineering** (Portland, Oregon)

Graduate Research Assistant: [ITS Lab](#), January 2008 – August 2009

- ▶ As a graduate research assistant, I classified and discovered data gaps, automated daily discovery of erroneous readings, and began work on a time dependent view of overall transit system health. I primarily used PHP, SQL, and Haskell to discover and present the information.

**Portland State University, Department of Computer Science** (Portland, Oregon)

Computer Science Tutor, April 2006 – December 2006

- ▶ As a computer science tutor, I helped undergraduate students with primary courses including: compilers, data structures, and computational structures. Most questions were about representing data structures in C++ and functional programming in Standard ML.

**Portland State University, Department of Civil Engineering** (Portland, Oregon)

Undergraduate Research Assistant: [ITS Lab](#), November 2006 – December 2008

- ▶ As an undergraduate research assistant on the [Portland Oregon Regional Transportation Archive Listing \(PORTAL\)](#) project, I created a web application displaying archived public transit system data on a Google map. I also helped process, aggregate, and query traffic data.

## EDUCATION

**Portland State University**, Portland, Oregon

M.S. in Computer Science; Advisor: [Bart Massey](#), GPA: 3.78, June 2009

**Portland State University**, Portland, Oregon

B.S. in Computer Science; Minor: Mathematics, *Cum Laude*, March 2008

**Portland Community College**, Portland, Oregon

A.S., June 2004

## PUBLISHED PROCEEDINGS

Berkow, M., Chee, J., Bertini, R.L., and Monsere, C., "Transit Performance Measurement and Arterial Travel Time Estimation Using Archived AVL Data," Compendium of Technical Papers, Institute of Transportation Engineers, District 6 Annual Meeting, Portland, Oregon, July 15 – 18, 2007.

## PROFESSIONAL ACTIVITIES

### Professional Memberships

[Association for Computing Machinery](#), 2006 – 2008

### Conferences & Gatherings Attended

[BayHac, Bay Area Haskell Hackathon](#), 2011 – 2014

[Haskell Hackers at the Hacker Dojo](#), 2012 – 2014

International Conference on Functional Programming, 2013

Bay Area Haskell Users Group, 2011 – 2012

Commercial Users of Functional Programming, 2010

## AWARDS

President's List, Portland State University, Winter 2007 – Summer 2007

Dean's List, Portland State University, Spring 2006 – Fall 2006

## **SERVICE**

### **Professional Service**

Treasurer, ACM Student Chapter, Portland State University, April 2006 – March 2008

### **Community Service**

Elementary Sunday School Teacher, New Community Baptist Church, May 2013 – Present

Classroom Assistant: ESL, Sunset Presbyterian Church, April 2004 – April 2006

## **LANGUAGES**

Haskell, bash, Python

## **TOOLS**

vim, git, bash, linux

Last updated: August 12, 2014

<https://github.com/cheecheeo/resume/blob/master/cv.pdf?raw=true>