

Education

Stanford University: MS in Computer Science**Stanford, CA**

Focus: Theoretical Computer Science

Current GPA: 4.0

September 2011 – Present

Stanford University: BS in Computer Science**Stanford, CA**

Focus: Artificial Intelligence and Machine Learning

GPA: 3.9

September 2008 – June 2012

Languages/Skills: Python, JavaScript/CoffeeScript, Django, Tastypie, Backbone, RequireJS, Node/Connect, Jade, Handlebars, Bootstrap, Java, C, C++, Objective-C, HTML/HAML, CSS/LESS, Haskell, Matlab**Stanford University: BS in Mathematics****Stanford, CA**

Focus: Analysis, Probability and Measure Theory

GPA: 3.9

September 2008 – June 2012

Courses Taken:

Object-oriented Programming, Machine Learning, Probabilistic Graphical Models, Convex Optimization, Natural Language Processing, Analysis, iPhone Programming, Computer and Network Security, Advanced Algorithms, Programming Languages

Industry and Teaching Experience

Stanford Computer Science**Stanford, CA***Course Assistant, Section Leader*

January 2010 – Present

Responsibilities include teaching weekly labs and sections, grading programming assignments and exams, and holding office hours.

RockMelt, Inc.**Mountain View, CA***Software Engineering Intern*

June 2010 – March 2012

Responsibilities include work on both the front-end browser product (Objective-C++) and on the platform architecture and applications (primarily in-browser JavaScript/HTML and Node). Built dynamic in-browser JavaScript applications that are currently used by tens of thousands of people.

Independent Projects

Premonit (premonit.com)**Menlo Park, CA***Collaborative Prediction Platform*

January 2012 – October 2012

Co-founded. Developed both back-end code and web front-end. Developed an all-AJAX app with the front-end using Backbone and RequireJS alongside Handlebars templates and the back-end using Tastypie to serve up JSON from a Postgres database. Deployed with Fabric on EC2 using uWSGI.

Stanford Debate Society (debate.stanford.edu)**Stanford, CA***Web Portal and Infrastructure*

August 2011 – November 2011

Developed an entirely new web portal and server backend for the Stanford Debate Society. Built using Django and a number of other open-source projects and deployed on Apache FCGI. Open-sourced on GitHub.

ClassiWhale**Stanford, CA***Twitter-filtering Web Service*

August 2010 – April 2011

Developed a web service and corresponding iPhone application. Used Machine Learning techniques to determine user interest and automatically filter user Twitter feeds to surface the most interesting content. Used many open-source web and natural language libraries. Built primarily with Django and deployed using mod_wsgi. Open-sourced on GitHub.

Publications

Churchill, A. (2009). *Restrictions and Generalizations on Comma-Free Codes*. http://www.combinatorics.org/Volume_16/PDF/v16i1r25.pdf

Work primarily involved development of upper-bounds on the information capacity of classes of (self-synchronizing) comma-free codes, as well as constructive lower-bounds and development of NP-Complete comma-free restrictions.

Honors and Extracurricular Activities

- ❖ Tau Beta Pi, Engineering Honor Society
- ❖ American Mathematical Society Karl Menger Memorial Award for Mathematics Research
- ❖ Stanford Debate Webmaster

- ❖ Presidential Scholar
- ❖ Graduate with Distinction in Math and CS