
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, Ruby on Rails	
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

RockMelt, Inc. **Mountain View, CA**
Software Engineer
June 2010 – Present
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.

Stanford Computer Science **Stanford, CA**
Section Leader
January 2010 – Present
Responsibilities include teaching weekly sections, grading programming assignments and exams, and holding office hours.

Independent Projects

Premonit (premonit.com) **Menlo Park, CA**
Collaborative Prediction Platform
August 2011 – November 2011
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

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| ❖ Tau Beta Pi, Engineering Honor Society | ❖ Presidential Scholar |
| ❖ American Mathematical Society Karl Menger Memorial Award for Mathematics Research | ❖ Graduate with Distinction in Math and CS |
| ❖ Stanford Debate Webmaster | |