

## 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

### Google

Mountain View, CA

*Software Engineering Intern*

June 2013 – September 2013

Worked on Product Listing Ads UI, involving front-end code and tests (primarily HTML and Java), ran experiments to determine impact of changes to UI. Worked on new design of Jackpot card.

### Stanford Computer Science

Stanford, CA

*Course Assistant, Section Leader*

January 2010 – Present

Taught weekly labs and sections, graded programming assignments and exams, and held office hours.

### RockMelt, Inc.

Mountain View, CA

*Software Engineering Intern*

June 2010 – March 2012

Worked 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](http://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](http://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. Open-sourced on GitHub.

### ClassiWhale

Stanford, CA

*Twitter-filtering Web Service*

August 2010 – April 2011

Developed a web service and corresponding iPhone application. Machine learning to filter Twitter feed. Open-sourced on Github.

## Publications

Churchill, A. (2009). *Restrictions and Generalizations on Comma-Free Codes*. [http://www.combinatorics.org/Volume\\_16/PDF/v16i1r25.pdf](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
- ❖ Presidential Scholar
- ❖ American Mathematical Society Karl Menger Memorial Award for Mathematics Research
- ❖ Graduate with Distinction in Math and CS
- ❖ Stanford Debate Webmaster