

Education

Expected 2016 **Double Major in Physics and Computer Science, B.S.,** *University of Chicago*, Chicago, IL.
Cumulative GPA: 3.84; Dean's List: 2013, 2014, 2015, 2016
Phi Beta Kappa Honor Society

Experience

Employment

Jul 2016– **Software Engineer,** *Google*, New York, NY.

- Present
 - News and Fresh Content Features in Search
 - Internationalized NLP quality and production systems of news faceting feature on the search results page, expanding coverage to non-US audiences
 - Built latency instrumentation tools for monitoring and analysis of pipeline performance
 - Acoustic Modeling i18n Infrastructure and Research
 - Trained acoustic models for speech recognition, maintaining and improving model quality across 58 languages
 - Pursued a research project in cross-dialect transfer learning with SVD bottleneck adaptation
 - Contributed to development of TensorFlow replacement for legacy LSTM trainer system

Summer 2015 **Software Engineering and Optimization Intern,** *AppNexus*, New York, NY.

- Implemented new real-time bidding algorithm parameters in AppNexus' advertising platform and analyzed marginal benefits with Python data science tools

HackNY Mentor, *HackNY*, New York, NY.

- Mentored five members of the 2015 HackNY fellow class, advising and supporting them in their technical internships
- Organized and planned regular events, including technical workshops and alumni mixers

Summer 2014 **Data Science Intern and HackNY Fellow,** *HackNY*, New York, NY.

- Devised meaningful metrics for describing favorability of provider contracts
- Created dynamic and interactive visualizations for both internal review purposes and front-end publication using D3.js
- Delivered technical talk and co-coordinated recruitment event for prospective employees

Projects

Fish Plays Pokemon.

- Wrote a motion detector that mapped a video feed of an unsuspecting pet fish to GameBoy keypresses; paired with an emulator, the fish was able to play video games
 - Featured in TechCrunch, Forbes, BBC, and Vice
 - Official API sponsor of HackNY 2014 Fall Hackathon

Scannd.

- Led a six-person team to develop OpenCV-powered web-based PDF viewer and annotator that allows for natural interaction with and highlighting of scanned documents

Skills

Languages C, C++, CSS, Haskell, HTML, JavaScript, Python, SQL
Technologies D3.js, Flask, Git, \LaTeX , MapReduce, Pandas, Vim, *nix