
IRENE FENG

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EDUCATION

Dartmouth College – Bachelor of Arts in Computer Science/Philosophy 2013 - Current

Current Cumulative GPA: 3.86 out of 4.00

CS 10 Object-Oriented Programming (Java), CS 30 Discrete Math, MATH 22 Linear Algebra, CS 50 Software Design and Implementation (C), CS 73 Computational Linguistics (Python), MATH 76 Topics in Applied Math: Networks (MATLAB), CS 89 Human-Computer Interaction (Javascript), CS 31 Algorithms, CS 70 Numerical and Computational Tools (MATLAB), CS 74 Machine Learning (MATLAB)

- Thesis: Using Computational Models to Understand ASD Facial Expression Recognition Patterns

Crystal Lake South High School – High School Diploma 2009 – 2013

Cumulative GPA: 4.78 out of 4.00

WORK/RESEARCH

Computer Science 52 Teaching Assistant – *Hanover, NH* Mar 2017 – June 2017

- Leading lab hours and designing lab material for full-stack web development class. Course covered HTML/CSS basics, JS basics, React, Redux, Express, security, MongoDB, promises, and overall development workflow. Course description at cs52.me

Software Developer Intern at Wonder Workshop – *San Mateo, CA* June 2016 – Sept 2016

- Building data warehouse that implements ETL design. Wrote code to pull data daily (cron) from consumer-facing apps, and insert it into AWS-hosted Postgresql database. Constructed multiple queries to the database that track app usage and user behavior, and created charts to display the data. Using Javascript (TS) with NodeJS. metrics.makewonder.com

Computer Science 1 Teaching Assistant – *Hanover, NH* Jan 2016 – Mar 2016

Campaign and Web Development Intern at Girl Rising– *New York, NY* Dec 2014 – Mar 2015

- Maximizing scalability of internal staff website application for Girl Rising for file versioning and statistic tracking. Built both server and client-side scripts to interact with databases on Mongo and Amazon servers. Using Scala with AkkaHTTP and AngularJS with brunch. internal.girlrising.com

Programming Assistant for Dartmouth Linguistic Automation Website Dec 2014 – Ongoing

- Developing and maintaining a website for linguists to upload audio files for linguistic analysis and receive results asynchronously. Using Apache, lighttpd, Python (webpy), and JavaScript. darla.dartmouth.edu

Research Assistant in Evolutionary Computational Genomics – *Hanover, NH* Dec 2013 – June 2015

- Analyzing methylome of microbacterium *Kosmotoga olearia* to discover genomic determinants of thermal adaptation. Using an *in silico* approach, used Python and bash to manipulate sequence data.

PROJECTS

BoomSync – *Hanover, NH*

- A product of a 12-hour hackathon. Created game to teach novices in Javascript how to code asynchronously. Designed levels in the React framework to progressively learn the nature of callbacks and promises in Javascript. boomsync.surge.sh

Other projects on www.github.com/irenefeng