

Education

Yale University, New Haven CT

Class of 2017

Bachelor of Science in Electrical Engineering and Computer Science

Select Electives: Internet Engineering, Big Data & Global Policies, Heroes & Villains in American Film and Literature

Academy of Information Technology and Engineering, Stamford CT

Class of 2013

Connecticut Governor's Scholar 2012, Valedictorian; Lettered Varsity Swimmer, Debate Team Captain

Experience

Software Engineering Intern at Metamarkets

May 2016 - Aug 2016

Worked on performance tuning of an Angular/NodeJS webapp for visualizing petabyte scale data. Developed internal tools for automated performance profiling of client-side code in python, and optimized code based on observations using Jupyter Notebook and Tableau. Used Agile development method and wrote unit/integration tests with Karma/CasperJS.

Data Analyst at Yale Data-Driven Environmental Solutions Group

Sept 2015 - Present

Wrote Python and shell scripts to scrape and munge data from public data sources regarding Co2 emissions. Created interactive dashboards in Tableau to assist in analysis and presentation. Findings presented in the journal *Nature* in April 2016.

Research Assistant at Yale Visual Cognitive Neuroscience Lab

May - Aug 2014

Worked with MATLAB scripts to sanitize fMRI scans and identify correlations between attributes and ADHD test results.

Editor at Swimming Science

April 2012 - Present

SwimmingScience.net is a blog and discussion platform for bringing findings from sports science and medical literature to swim coaches. Assist with editing articles, annotating/summarizing science papers, and performing stroke technique analysis.

Research Assistant at Yale Department of Sociology

June - Aug 2015

Analyzed class curricula from 40+ university social science research methods courses. Proposed a framework for incorporating new material into existing curricula. Designed presentation for the Critical Realism Conference in July 2015.

Extracurriculars

Full Stack Web Developer

May 2013 - present

- Identified, pitched, and execute web development projects for various private clients and student groups
- Built frontend and backend components for award-winning projects at various hackathons.
- Created "textPlus", installation at the Yale University Art Gallery that allowed for SMS interaction with art pieces

Founder, YaleMakes

Aug 2014 - present

Organized weekly workshops + newsletters on graphical, digital, and physical design. Taught workshops on web design.

Teacher, Splash @ Yale

Aug 2013 - Apr 2016

Splash is an educational program for local students (grades 7-12) to take classes taught by Yale students. Designed and presented *Introduction to Cognitive Science* and *The Well-Played Game: Why Game Design Matters* each semester.

Awards/Skills

Awards: Microsoft Grand Prize @ YHack '15, Overall Runner-Up @ Schwarzman Thinkathon 2015, Best Nativescript App @ hackMIT '16, 2nd Place at Yale Data Hack '15, Best Use of MongoDB @ YHack '14

Technical Skills: Full Stack Web Development (HTML/CSS/Javascript/Python/PHP), Data Analysis and Wrangling, C and Microcontroller (Arduino) Programming, MATLAB, AutoCAD, Photoshop, Illustrator, Graphic Design

Language Skills: Fluent English, Conversational Mandarin and Cantonese