

# Richard Huang

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## Education

### Carnegie Mellon University

B.S. in Information Systems

Minors in Computer Science and Business Administration

Pittsburgh, PA

Sept. 2014 – May 2018

### Oxford University - Trinity College

Courses: Product Management, International Financial Markets, Machine Learning

Oxford, UK

Sept. 2016 – Dec. 2016

## Skills

- Languages – Java, Python, SQL (MySQL, PostgreSQL), Terraform, JavaScript/Typescript, Ruby, HTML, CSS
- Frameworks/Tools – Spring/Boot, React, AWS Applications, Docker, Ruby on Rails, Django, Selenium

## Relevant Experience

### Two Sigma Investments

Software Engineer

New York, NY

Aug. 2018 – Present

- Engineered and released a greenfield product that allowed the firm to serve contributors targeted questions, generated by a recommendation engine, and systematically collect their sentiment on various themes and instruments. This new method of crowdsourcing proprietary data allowed for new model releases that diversified from the core live data streams.
- Built and took ownership of Data Portal, the main platform that Two Sigma uses to discover new and interesting dataset leads. Led discussions on critical architectural decisions for file upload, dataset review, and scalability features for the product.
- Designed and implemented a SFTP data pipeline that validates and processes trading data for our platform that collects algorithmic trades from our more technical contributors.
- Architected and developed a new product that allowed the firm to collect trade ideas and data from a newly identified crowd of financial analysts. Led efforts in the ideation phase for large components including user management and database design.
- Rewrote and improved a legacy grading system for PICS, a platform that systematically collects trade ideas from sell-side brokers. Focused strongly on code readability/maintainability as well as testing to guarantee calculation correctness.

### Carnegie Mellon University

Head Teaching Assistant

Pittsburgh, PA

Jan. 2016 – May 2018

- Developed curriculum for two core Information System courses as well as a new elective course with topics ranging from technical (frontend/backend, Git, API, design patterns) to non-technical (case study analysis and organization science).
- Assisted professors in teaching the courses, led recitations, trained TA's, organized grading sessions, and ran office hours.

### Two Sigma Investments

Software Engineering Intern

New York, NY

May 2016 – Aug. 2017

- Designed framework/platform for developers to more easily build HipChat Integrations and Bots and standardize them.
- Developed an end to end interview scheduling tool that tackled automation, interview distribution, and feedback issues.

### University of Pittsburgh Medical Center (UPMC)

Data Governance Consultant

Pittsburgh, PA

Nov. 2015 – Jan. 2017

- Designed a database model for medical data within UPMC and developed a webapp to help users govern and manage the data.
- Built data analytics and visualization dashboards using D3 to find pain points and do impact analysis.

### Kyruus

Software Engineering Intern

Boston, MA

May 2015 – Aug. 2015

- Developed calendar scheduling feature with Ruby on Rails and Backbone for the main patient-doctor booking system.
- Created a complete testing suite (unit and functional tests) using Selenium, Pytest, RSpec, Jasmine.

## Involvement

### ImpacTS – Employee Engagement Lead

Jan. 2019 – Present

- Organized volunteering opportunities for employees and built relationships with non-profits across NYC.

### Cloud-First and React Frontend Courses (Two Sigma)

Aug. 2019 – Present

- Designed and taught the public cloud (AWS) training course and a React frontend course at Two Sigma.

### Milk Line, President

Sept. 2014 – Sept. 2016

- Co-founded a business club that conveniently delivers healthy breakfasts to students around campus.

### Delta Tau Delta, Treasurer

Oct. 2014 – Jan. 2016

- Managed funds for the fraternity and created a budget for all the departments and the fraternity chef.