

Richard Huang

(201) 281-6121 • rickrhuang@gmail.com
www.rick-huang.com • github.com/rahuang

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

- Architected and developed data crowdsourcing platforms to systematically collect new proprietary data from external contributors globally that our modeling and trading systems leverage to gain valuable insights into the market.
- Developed core recommendation engine logic and determined optimal data signals to accurately target and collect sentiment data from contributors through auto-generated poll questions. Built real time reports of contributor responses using Java Spring/Boot, React Typescript and cached the calculated metrics using Redis.
- Built an extensible data pipeline infrastructure using Terraform with AWS (ECS, SQS, EC2, S3, IAM) and Java to efficiently collect, normalize, and evaluate large datasets of historical algorithmic trades from our more technical contributors.
- Established a scalable metrics calculation and reporting framework using Python and Pandas that is responsible for determining the engagement of our contributors and the performance of their ideas and sentiment across all platforms.
- Created a greenfield product with Java, React, and GraphQL to discover interesting datasets through thousands of contributors and vendors. Led technical and product feature decisions that resulted in the firm's expansion of new datasets and signal sources.

Carnegie Mellon University

Head Teaching Assistant

Pittsburgh, PA

Jan. 2016 – May 2018

- Established curriculum for two core Information System courses as well as a new elective course with topics ranging from technical (Ruby on Rails, Vue, 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 Java framework/library 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.