Richard Huang

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

Education

Carnegie Mellon University   Pittsburgh, PA
Bachelor of Science in Information Systems   Sept. 2014 – May 2018
Minors in Computer Science and Business Administration

Oxford University - Trinity College   Oxford, UK
Courses: Product Management, International Financial Markets, Machine Learning   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   New York, NY
Software Engineer   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 near greenfield product that allows us 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   Pittsburgh, PA
Head Teaching Assistant   Jan. 2016 – May 2018

- Developed curriculum for two core Information System courses as well as two new elective courses 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   New York, NY
Software Engineering/Product Management Intern   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)   Pittsburgh, PA
Data Governance Consultant   Nov. 2015 – Jan. 2017

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

Kyruus   Boston, MA
Software Engineering Intern   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)   Jan. 2020 – 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.