

Rick Yuan, CFA, FRM

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Education

The University of Chicago

B.S. Mathematics

Chicago, IL

September 2004 – June 2008

Programming Projects

Heap Overflow (Skills: React, Redux, Ruby on Rails, HTML, CSS, SASS, PostgreSQL) [Live](#) · [GitHub](#)
Q&A Community for Developers, inspired by Stack Overflow

- Leveraged Ruby on Rails polymorphic associations and concerns to implement advanced site features
- Used Redux to elegantly handle complex communication between deeply nested React components
- Implemented counter caches to avoid burdensome computation on large datasets
- Carefully constructed user authentication to handle multiple simultaneous demo users
- Styled site using HTML, CSS, and SASS without frameworks

BikeDock (Skills: iOS, Xcode, Swift, Objective-C)

[Live](#) · [GitHub](#)

Dock-to-Dock directions for bike share

- Successfully launched iOS app on Apple App Store with over 3,000 downloads and active user base
- Self-taught Swift, Xcode Auto Layout, and App Store mechanics to deploy app
- Designed algorithm to select best available docks based off user start and end locations

D3construct (Skills: JavaScript, D3)

[Live](#) · [GitHub](#)

Visual deconstructions of data and algorithms using D3

- Developed fully interactive D3 scatter plot allowing users to modify data points and navigate the graph
- Separated linear regression into component calculations to allow intuitive visualization

Read Zhongwen (Skills: AWS, Python, Flask, HTML, CSS, SQLite)

[Live](#) · [GitHub](#)

Improve Mandarin reading skills through interactive text with pre-loaded dictionary lookups

- Deployed website on AWS Elastic Beanstalk
- Designed algorithm to select definitions by phrases to improve relevance of definitions in context
- Increased lookup performance by 90% through caching and SQL tree-based index

Work Experience

Training The Street, Inc.

New York, NY

Instructor

July 2012 – December 2018

- Taught financial valuation and modeling to over 11,000 students & professionals in 220 live programs
- Spearheaded development of new class that increased positive feedback by nearly 15%
- Won all-expenses paid trip to Hawaii given to top 5% of instructors annually
- Collaborated with colleagues on rigorous Q&A of key curriculum materials before broad distribution

Bank of America Corporation

New York, NY

Senior Analyst

June 2010 – June 2012

- Advised over 100 mid & large cap clients on management of foreign currency and interest rate risk
- Reduced calculation time for option-pricing models 70% by using processor multi-threading
- Used VBA to efficiently tabulate data for survey of over 200 firms
- Measured foreign currency risk and diversification using Monte Carlo simulation of Value at Risk