

Rick Yuan, CFA, FRM

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<https://www.rickyuan.com/> • <https://www.linkedin.com/in/rick-yuan/> • <https://github.com/ricksyuan/>

Skills

JavaScript, React, Redux, Ruby on Rails, SQL, HTML, CSS, iOS, Swift, Python, C++, Git, TDD

Programming Projects

Heap Overflow

[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 deeply nested React components
- Implemented counter caches to avoid burdensome computation on large datasets
- Styled site using HTML, CSS, and SASS without frameworks

BikeDock

[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

[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

[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

- Expertly communicated financial valuation concepts to 11,000 students over 220 live programs
- Took initiative to develop new class that increased positive feedback by nearly 15%
- Won all-expenses paid trip to Hawaii given to top 5% of instructors annually

Bank of America Corporation

New York, NY

Senior Analyst

June 2010 – June 2012

- Analyzed quantitative strategies to reduce portfolio risk for over 100 mid & large cap clients
- Reduced calculation time for option-pricing models 70% by using processor multi-threading in Excel
- Used VBA to efficiently tabulate data for survey of over 200 firms

Education

The University of Chicago

Chicago, IL

B.S. Mathematics

September 2004 – June 2008

App Academy

New York, NY

Rigorous coding bootcamp with <3% admission rate

Nov 2018 – Feb 2019