

# Rick Yuan, CFA, FRM

+1 (630) 854-7869 • rick.s.yuan@gmail.com • 301 W 53rd St Apt 13C, New York, NY, 10019

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

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## Skills

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

## 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
- Styled site using HTML, CSS, and SASS without frameworks

**BikeDock** (Skills: iOS, Xcode, Swift)

[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

- Simply communicated complex 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 software engineering bootcamp with <3% admission rate*

Nov 2018 – Feb 2019