Rick Yuan, CFA, FRM

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Skills

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

Programming Projects

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
- Designed algorithm to select best available docks based off user start and end locations
- Self-taught Sketch to design icon sets for releasing app on full range of device screen sizes
- Localized strings to work in both German and English for international users

Heap Overflow   Live · GitHub
Stack Overflow-inspired Q&A community for developers
- Leveraged Ruby on Rails polymorphic associations and concerns to keep code DRY
- Kept multiple deeply nested React search bar components in sync using Redux store for consistent UX
- Used counter caches to avoid burdensome computation on large datasets
- Styled site using HTML, CSS, and SASS without frameworks

D3construct   Live · GitHub
Visual deconstructions of data and algorithms
- Developed fully interactive D3 scatter plot allowing users to modify data points and navigate graph
- Separated linear regression into component calculations to allow intuitive visualization

Read Zhongwen   Live · GitHub
Improve Mandarin reading skills
- Deployed website on AWS Elastic Beanstalk
- Designed algorithm to segment text into phrases to increase relevance of dictionary definitions
- 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 technical financial 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 (3.51/4.00 GPA)   September 2004 – June 2008

App Academy   New York, NY
Coding bootcamp with <3% admission rate emphasizing Git and TDD   Nov 2018 – Feb 2019