RICK YUAN

SOFTWARE ENGINEER

PROFILE

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CONTACT

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SKILLS

React
Redux
JavaScript
Ruby
Ruby on Rails
RSpec
jQuery
SQL
Git
HTML5/CSS3

EDUCATION

App Academy
Rigorous 1,000-hour software development course with <3% admission rate

The University of Chicago
B.S. Math / B.A. Economics
GPA: 3.5/4.0
Dean's List 2004-2008
Varsity Swim Team
National Merit Scholar

CERTIFICATIONS

Chartered Financial Analyst

Projects

Heap Overflow (React, Redux, Ruby on Rails, HTML, CSS)
Live · Github *Q&A community for developers, inspired by Stack Overflow*

- Used React to create dynamic website UI and Redux to simplify complex communication between deeply nested components for exceptional user experience
- Leveraging Rails polymorphic associations and concerns for voting and commenting features to keep code DRY
- Carefully wrote Rails associations to ensure database consistency when records are destroyed and prevent orphaned records
- Constructed advanced search feature allowing user to search by titles or tags, using ActiveRecord eager-loading to eliminate n+1 queries

D3construct (Vanilla JavaScript, D3)
Live · Github *Visual deconstructions of data and algorithms using D3*

- Developed a fully interactive scatter plot allowing users to create, update, and remove data points as well as zoom and pan visually on the graph, while dynamically re-rendering a linear regression

Work Experience

Training The Street New York, NY
Associate Instructor *2012 – 2018*

- Taught over 220 live classes on financial modeling, corporate valuation, and data analysis at financial, corporate, and academic institutions, reaching over 11,000 working professionals and students across the globe
- Built and analyzed operating, discounted cash flow, mergers & acquisitions, and leveraged buyout models for over 20 companies
- Spearheaded development of new financial modeling class that became part of core training offerings, increasing positive feedback by nearly 15%
- Won award trip to Hawaii given to two employees annually for outstanding contributions

Bank of America Merrill Lynch New York, NY
Senior Analyst *2010 – 2012*

- Advised over 100 clients on the use of derivative products to manage foreign currency and interest rate risk using Value at Risk analysis
- Conducted survey of over 200 firms to determine risk management trends, using VBA to enhance efficiency of data analysis

Officer, Quantitative Management Associate Program *2008 – 2010*

- Used MATLAB to programmatically generate consumer credit health scores by core-based statistical areas
- Used SAS/SQL to fully automate production of risk reports, reducing 100-hour manual process to 1 hour