MICHAEL TU
SOFTWARE ENGINEER

Contact

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Software Engineer with background in financial services and platform management. When I'm not writing code, I enjoy playing ultimate frisbee and backcountry snowboarding.

Skills

LANGUAGES
- JavaScript
- - ES5/ES6/ES7
- Ruby
- SQL
- CSS3
- HTML5
- VBA

DATABASE
- PostgreSQL
- SQLite3
- Firebase DB

TECHNOLOGIES
- React / hooks
- Redux / hooks
- Rails
- jQuery
- DOM
- AWS
- API
- Webpack
- Heroku
- Git
- Docker

Projects

BitSeek
BitSeek is a single-page web app to search for bitcoin address transactions [React/Redux, Material UI]

- Landing page to search bitcoin addresses - supports base58 or hash160
- Modal to notify the user of an invalid address and redirects to the landing page
- All BTC transactions are available with details such as amount, hash address, date, and block index
- Utilized React hooks and Redux hooks

GetStarted
GetStarted is a single-page web app inspired by Kickstarter [Rails, PostgreSQL, React/Redux]

- User authentication to ensure security of credentials using BCrypt hashing
- Integrated Amazon Web Services S3 (AWS) to allow users to upload and store project images
- Reduced load by eliminating n+1 database queries with Rails Active Record relational mapping
- Implemented search by project name or category
- Utilized React hooks and Redux hooks

Zig Zag
Control an orb along the Zig Zag path and don't hit the wall! [JavaScript, Canvas, Firebase DB]

- Demonstrated the ability to experiment with Canvas in order to launch the game within a week
- Utilized Google Firebase API to persist and retrieve high scores

Employment

Bank of America Merrill Lynch
Assistant Vice President - Hedge Fund Platform

MAR. 2016 TO OCT. 2018
NEW YORK, NEW YORK

- Launched and managed hedge funds on the $45 billion wealth management platform
- Fetched data using SQL to create KPIs and metrics for project planning and execution
- Integrated over 4,500 clients' tax documents onto a portal, reducing advisor inquiries by 95%
- Streamlined the operations between internal and external technology, business development, and investor relation teams to launch and maintain funds on the platform
- Coordinated with stakeholders, technology, and operations to introduce fund specific requirements

Prudential Financial Inc.
Sr. Alternative Products Associate

OCT. 2013 TO FEB. 2016
NEWARK, NEW JERSEY

- Monitored the performance of several $300 - $750 million CLOs under management
- Replaced a trustee performance spreadsheet tracker with a Microsoft Access database with user reporting tools
- Calculated distributions by utilizing the waterfall model to ensure accurate quarterly payments
- Managed risk by analyzing the performance of several US/European CLOs and their impact on interest coverage, overcollateralization, and concentration limitations
- Assisted in ongoing system tests to ensure current and newly issued funds adhere to indenture specifications

Education

Rutgers Business School
B.S. Finance 2013
Undergraduate GPA 3.52 | Major GPA 3.62

SEPT. 2009 TO MAY 2013

App Academy
1000+ hour full-stack web development intensive with less than 3% acceptance rate

DEC. 2018 TO MAR. 2019