

MICHAEL TU

SOFTWARE ENGINEER

CONTACT

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Software Engineer with background in hedge funds and product management. When I'm not writing code, I enjoy playing ultimate frisbee and backcountry snowboarding.

SKILLS

LANGUAGES

- JavaScript
- ES5/ES6/ES7
- Ruby
- Python (intro)
- SQL
- CSS3
- HTML5
- VBA

DATABASE

- PostgreSQL
- Mongo DB
- Firebase DB
- SQLite3

TECHNOLOGIES

- Node.js
- React
- Redux
- Rails
- Express
- AWS
- API
- Webpack
- Heroku
- Git
- Docker
- jQuery
- Responsive Design

PROJECTS

CHAT

Chat is a single channel full stack web app [Node.js, Express, MongoDB, React/Redux]

- Landing page to continue as the main user or an alternate user to see the perspective of the chat update
- Each message has a character count with a max of 140 characters and an error message when no message is typed
- Dynamic avatars for users that are signed up
- Auto-scrolls to the most recent message
- Responsive using media queries

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 with BCrypt hashing
- 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

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