

MICHAEL TU

SOFTWARE ENGINEER

CONTACT

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in MIKE TU

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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 - primary
- Python - secondary
- SQL
- HTML5
- CSS3

TECHNOLOGIES

- React
- Redux
- Flask
- Node.js
- Rails
- GitLab CI/CD
- Webpack
- AWS S3 and EC2
- Storybook
- Docker
- Kubernetes
- Nginx
- Progressive Web App (PWA)
- Responsive Design

DATABASE

- MongoDB
- Mongoengine
- PostgreSQL
- Firebase DB
- SQLite3

EMPLOYMENT

OBSESS, INC.

SOFTWARE ENGINEER - FULL STACK

DEC. 2019 TO CURRENT

NEW YORK, NEW YORK

- Deploy regularly to production with product and design requirements for clients like Sam's Club and Accenture
- Built a reusable scenes navigation status bar using React and CSS to show user's progression throughout a store
- Built an interactions counter where users are incentivized to interact with a set number of objects within each scene and the count is persisted using local storage
- Integrated internal systems with Shopify Storefront API for products and checkout
- Designed and built end to end flat non-moving scenes within 3D environments from scene image upload and data consumption to store deploy using Flask, MongoDB, and React
- Designed data store API to produce mock endpoints using OpenAPI for frontend development
- Backend development of API endpoints and MongoDB connections using mongoengine
- Participated in trade shows to speak on behalf of the technologies and offerings at Obsess

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 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 operation teams 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 with a MS Access relational database with user reporting tools
- Calculated distributions by utilizing the waterfall model to ensure accurate quarterly payments
- Assisted in ongoing system tests to ensure current and newly issued funds adhere to indenture specifications

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
- Message character count with a max of 140 characters and no message typed error handling
- 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

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

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

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