

**Katie M. Li**  
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Experienced data analyst/project manager with hands-on experience in **Full Stack Development**

**Related Professional Experience**

**Bank of New York Mellon**

New York, NY

Aug 2018 - Oct 2021

*Risk & Compliance Modeling and Analytics Group Lead Analyst*

- Designed and developed a model performance application that monitors model lifecycle maintenance of over 120+ models within the company, automated the reporting process to produce various dashboards for executive managers' use by using VBA, Python and queried data with SQL from internal relational databases

**Personal Projects**

**Project 1 - Amazon Clone Website**

*Fully functioned and deployed full-stack ecommerce website (MVC architecture) that includes authentication sign-in, shopping cart, payment processing through Stripe Checkout, firestore database storing order history*

- Deployed domain <https://amazon2point0.vercel.app/>
- Repository <https://github.com/katiem3749/amazon2.0>
- Built responsive web pages with using HTML/CSS (TailwindCSS), creating reusable frontend components with React, and managing global state with Redux-toolkit, to perform CRUD operations
- Implemented the RESTful APIs with Node.js to handle HTTP requests and response; implemented NextAuth.js for sign-in authentication to allow users sign in with built-in OAuth Authentication Providers
- Implemented the Stripe Checkout for processing payments, connected Stripe webhook with Firestore Database to store successful transactions and for retrieving order history

**Project 2 - Real Time Chat Application**

*Allows creating a contact list and broadcasting messages to one or more connected clients*

- Repository <https://github.com/katiem3749/real-time-chat-app3749>
- Built client side interface mainly with the third party framework Twitter Bootstrap built-in features to achieve a fast, extensible frontend interface
- Realized bidirectional communication on the server side by using Javascript library - Socket.io

**Project 3 - Album Management Dashboard with GraphQL API**

*A dashboard to visualize personal collection of favorite music albums with features including front end user interface, back end data processing and database, and GraphQL for the API*

- Repository [https://github.com/katiem3749/albumCollection\\_graphQL\\_api](https://github.com/katiem3749/albumCollection_graphQL_api)
- Created a dashboard of albums that enables users to enter related information, update and delete artists or albums.
- Setup connection to MongoDB database to store data and reflect any mutation called from the front end, also setup mongoose schema, use GraphQL to query needed data fields and realize mutation

**EDUCATION**

Columbia University, Bachelor of Arts | Major in Mathematics-Statistics, GPA 3.6

May 2018

Relevant courses - Intro to CS, Data Structure, Analysis of Algorithms, Statistical Comp & Data Science

**SKILLS AND LANGUAGES**

Languages: HTML, CSS, Javascript, TypeScript, Node.js, Java, Python, SQL, R

Frameworks: ReactJS, Redux, TailwindCSS, Twitter Bootstrap, Express, CORS

Other Libs/ Database: Next.js, Firebase, MongoDB, GraphQL, Google Cloud Platform, Git (version control)

Native level proficiency in written and spoken Mandarin