

**Katie M. Li**  
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Experienced data analyst/project manager with hands-on experience in **Full Stack Development**. Seeking to leverage attention-to-detail skills and full-stack knowledge to build interactive and user-centered web applications.

### **SKILLS & LANGUAGES**

Javascript (React.js, Node.js), HTML, CSS | SQL (MySQL, NoSQL), Git  
Other Technical Tools: Java, Python, Redux, Docker, Webpack, TailwindCSS, Bootstrap, Express, Next.js, Firebase, MongoDB, GraphQL, Google Cloud Platform  
Native level proficiency in written and spoken Mandarin

### **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

### **Related Professional Experience**

**Bank of New York Mellon** Aug 2018 - Oct 2021  
*Risk & Compliance Modeling and Analytics Group Lead Analyst* New York, NY

- Designed and developed a brand-new 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 database

### **Personal Projects**

#### **Project 1 - Amazon Clone E-commerce 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/amazon2point0>
- Built responsive web pages with using HTML/CSS (TailwindCSS), created reusable frontend components with React, and managed 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>
- Realized bidirectional communication on the server side by using Javascript library - Socket.io
- Built client side interface mainly with the third party framework Bootstrap built-in features to achieve a fast, extensible frontend interface

#### **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)
- Generated a dashboard of albums that enables users to enter related information, update and delete artists or albums (CRUD operations)
- Set up connection to MongoDB database to store data and reflect any mutation called from the front end; created mongoose schema, used GraphQL to query needed data fields and realize mutation