

# LIJUN GAN

Software Engineer

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## SKILLS

Python, R, C++, JavaScript, React, Redux, HTML, CSS, Ruby, Ruby on Rails, Mongoose, MongoDB, Node.js, Express.js, SQL, SQLite3, PostgreSQL, Webpack, jQuery, Git, Heroku, API, D3, Socket.io, AWS S3, WebRTC, AJAX, DOM, VBA, Bloomberg Terminal and FactSet

## PROJECTS

**Amazon** | ( React, Redux, Ruby, Ruby on Rails, AJAX, PostgreSQL, CSS, HTML, Javascript, JBuilder )

[Live Site](#) | [Github](#)

*A full-stack single-page app clone of Amazon for users to browse, purchase, and review books.*

- Implemented custom user authorization on both frontend and backend that checks for proper sign-up and log-in credentials, keeping track of the current user and all functionality dependent on the session status.
- Ensured each book's average review dynamically changes on created reviews utilizing the consistency of redux store, providing real-time feedback to the user.
- Optimized database usage and eliminated N+1 queries by observing SQL and Active Record best practices, for example, by pre-fetching associations.

**Blockup** | ( Mongoose, MongoDB, Express.js, Socket.io, WebRTC, Node.js, React, CSS, AWS S3, Javascript )

[Live Site](#) | [Github](#)

*A MERN Communication App - A 2FA-enabled web app supporting text chat, voice chat, and video chat*

- Used Speakeasy.js to create Time-based One-Time Passwords (TOTP) to implement Two-Factor Authentication (2FA), providing the user with a secure line of communication.
- Utilized Socket.io to serve communication between users, allowing real-time communication through various channels, such as video chat or speech to text .
- Constructed a dynamic and responsive UI using React components for making friend requests and creating chat rooms.

**Covid-off** | ( Javascript, D3.js, Canvas, CSS, HTML )

[Live Site](#) | [Github](#)

*An interactive Coronavirus dashboard for tracking vaccinations and cases for different countries.*

- Connected dashboard UI to third party API, allowing users to visualize the covid-19 data of various countries by interacting with the map.
- Dynamically generated graphs and charts of relevant data utilizing D3 based on the user's input selections.
- Leveraged Vanilla Javascript event listeners in order to handle user interaction with the UI, maintaining a lightweight code base without using external libraries.

## EXPERIENCE

### Teacher Assistant and College Assistant

*Baruch College, Feb 2019 - Dec 2020*

- Helped over 150 students to improve their problem-solving skills in programming and math by meeting individually and in small / large groups.
- Provided assistance to leveraging the power of Python to handle various data analytic tasks such as data wrangling.
- Offered feedback on the fundamental tasks involved with modeling, designing, and implementing a database application, ensuring thorough understanding and best practices.

### IT Support Intern and Research Intern

*NYU Langone Health, Feb 2020 - July 2020*

- Attended daily meetings to review the regression testing accomplishments and efforts of the MCIT QA team for the LabVantage 8.4 Upgrade project.
- Effectively utilized the bug tracking applications for reporting and monitoring for the laboratory information management system, correcting all bugs within 24-hours of reporting.

## EDUCATION

**App Academy** - Intensive, 16-week Software Engineering Bootcamp with a focus on full-stack Web Development (April 2021)

### Baruch College, Zicklin School of Business

- *Master of Science in Information Systems, GPA: 3.974/4.0* (December 2020)  
Coursework: Data Warehouse (SQL, NoSQL, OracleDB), Natural Language Process (Python)
- *Bachelor of Business Administration in Statistics and Quantitative Modeling, GPA: 3.913/4.0* (August 2019)  
Coursework: Object-Oriented Programming (C++), Data Mining (R), Data Analytics (Python)
- *Honors & Awards: Dean's List, Women in Technology and Entrepreneurship in New York Grant*