

# Derek Lee

## Software Engineer

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[LinkedIn](#)

[Github](#)

[Portfolio](#)

**TECHNOLOGIES** Javascript, React, Redux, HTML5, CSS3, Ruby on Rails, PostgreSQL, Node.js, SQL, jQuery, Webpack, Git & Github, REST API, AWS (S3), MongoDB, Express.js, D3.js, Python

## PROJECTS

### Bedfast

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

*An Airbnb clone built using React, Redux, Ruby on Rails, Javascript, Node.js, PostgreSQL, Webpack, Google Maps & Geocoding, AWS (S3)*

- Integrated Google's Map and Geocoding API to display and update the map and its markers on a single-page application
- Incorporated AWS S3 on the Rails backend to store 5 user uploaded photos for scalability and reliability
- Built the user interface using React.js, HTML, CSS, and React Calendar to render the page and make frontend components re-render
- Utilized Rails associations to create more flexible database models, to allow bookings and reviews to belong to users and listings, and to prevent n+1 queries

### LearnTwoMath

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

*An online platform for users to share resources about mathematical concepts using MongoDB, Express, React, Node.js, Redux, Quill.js*

- Led a team of three engineers by planning implementation timelines, understanding the MERN stack to delegate tasks according to each member's strengths, and holding daily check-ins
- Used Validator.js library and Mongoose ODM to provide multiple layers of data validation before saving data into a MongoDB collection to prevent saving malformed data
- Employed a non-relational database, MongoDB, to rapidly store and retrieve backend data using a flexible schema allowing for easy horizontal scalability with increased user needs

### League of Legos

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

*An interactive app to visualize data of all professional games played from 2014-18 in League of Legends using Javascript, HTML, CSS, D3.js*

- Designed a team search feature to fetch user query data using asynchronous functions
- Constructed dynamic data visualization graphs with D3.js
- Utilized DOM manipulation to engineer intuitive features allowing users to seamlessly switch between different chart types, hide and show winners, and compare players

## EDUCATION

### Baruch College Zicklin School of Business

May 2021

BA of Business Administration in Computer Information Systems

- **Cum Laude Award:** GPA: 3.71 / 4.00
- **Curriculum Highlights:** Object-Oriented Programming I, Principles of Web Design, Database Management Systems, Systems Analysis and Design, Information Technology Development and Project Management