Derek Lee

Software Engineer

CONTACT

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LinkedIn

Github

Portfolio

PROFICIENT

JavaScript
React (Class Components, Router)
Redux (Thunk, Logger)
HTML5
CSS3
Ruby on Rails
Relational DB (PostgreSQL)
Node.js
SQL
jQuery
Webpack
Bcrypt
Git & Github
RESTful API's

INTERMEDIATE

AWS (S3)
NoSQL Database (MongoDB)
Express.js
D3.js
Google API's
ReactQuill

EDUCATION

Baruch College | May 2021

- Zicklin School of Business
- Cum Laude, 3.71GPA
- BBA in Computer Information Systems

App Academy | May 2022

- 1000-hour immersive full-stack web development intensive program with < 3% acceptance rate

PROJECTS

Bedfast — live site | github

An AirBnB clone built using React, Redux, Ruby on Rails, JavaScript, Node.js, PostgreSQL, Webpack, Google Maps & Geocoding API, AWS, React Calendar

- Integrated Google Maps and Geocoding API to display and update the map and the marker for each of the listings to make the single-page application dynamic
- Incorporated AWS S3 on the Rails backend to store 5 user uploaded photos for scalability, reliability, and security
- Structured frontend components utilizing React.js, HTML5, CSS3 to render and make partial re-renders, and jQuery to make HTTP requests to the REST API
- Implemented login and sign-up features using the Bcrypt gem to securely store and verify passwords

LearnTwoMath — live site | github

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

- Utilized Validator.js library and Mongoose ODM to provide multiple layers of data validation before saving data into a MongoDB collection
- Employed a non-relational database MongoDB to rapidly store and retrieve backend data using a flexible and dynamic schema allow for easy horizontal scalability with increased user needs
- Customized the user interface and programmed custom functionalities from the ReactQuill library to guarantee a fluid user experience in rich text editing
- Applied Redux alongside React as a centralized state management system using reducers as pure functions to ensure React components behave as intended
- Used JWT's token-based authorization for the REST API allowing users to fetch, update, and delete their lessons, comments, quizzes, and flashcards

League of Legos — live site | github

An interactive app to create data visualizations of all professional games played from 2014-18 in League of Legends using: JavaScript, HTML, CSS, D3.js

- Constructed dynamic data visualizations by leveraging the d3.js library so users may analyze gold statistics for each game
- Utilized DOM manipulation to engineer intuitive features allowing users to seamlessly switch between chart types, hide and show winners, and compare players
- Designed a team search feature to fetch user query data using asynchronous functions

INTERESTS

- Esports / Video Games: reflect on game-winning/losing decisions
- Data Structures & Algorithms: learn and experiment new perspectives and approaches to solving problems