

# SEAN MACKKEY

## Software Engineer

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[Portfolio](#)

[LinkedIn](#)

[Github](#)

New York, NY

**SKILLS** JavaScript, TypeScript, React, Ruby, Ruby on Rails, Python, Redux, MongoDB, Express.js, Node.js, jQuery, PostgreSQL, Git, HTML5, CSS3

## PROJECTS

**EmptyChairs** - A web app inspired by OpenTable, where users browse restaurants and make reservations [Live Site](#) | [Github](#)  
(Ruby on Rails, PostgreSQL, JavaScript, jQuery, React, Redux, CSS, HTML, AWS, React-icons, Webpack, Heroku)

- Utilized Amazon Web Services Simple Storage Service (AWS / S3) to host all photos, reducing server load and eliminating the need to query the database for these images.
- Used ternary logic and leveraged Redux's ability to track the current user in local state to create a flexible and adaptive reservation form, pre-filling data for a logged-in user or prompting non-authenticated guests to provide the data.
- Implemented CSS grid layout, hidden text overflow, and nowrap white-space to create visually appealing, uniform restaurant index tiles to maximize the user's browsing experience.

**mapStatesToPost** - An original web app where users can upload a photo from every U.S. state they have visited [Live Site](#) | [Github](#)  
(MongoDB, Mongoose, Express.js, React, Redux, Node.js, AWS, SVG, HTML, CSS, Webpack, Heroku)

- Managed the obscuring and protection of all 3rd party API keys using Heroku configuration variables.
- Implemented the app's database using MongoDB Atlas and connected it to the app. Integrated Mongoose to create models for the database objects.
- Implemented local strategy for user authentication with Passport.js, using BCrypt for password hashing, giving the user a safe and reliable experience.

**Conway's Game of Life** - An original implementation of John Conway's cellular automation where users create a [Live Site](#) | [Github](#)  
configuration of dead and live cells and watch them evolve according to the game rules (JavaScript, React, CSS)

- Leveraged a boundless adjacency list data structure to represent the board within the algorithm, efficiently handling the addition and removal of rows and columns while providing the board with its required infinite behavior.
- Harnessed the useEffect hook and JS setInterval function to continuously transform and display the board on the browser while also adding the ability for users to manually step through generations, providing users with multiple ways to interact with the game.

## EXPERIENCE

### Project Manager

*Broadway Booking Office NYC, Sept 2014 - July 2020*

- Negotiated financial deals for 250 bookings per season on multi-million dollar theatrical tours, securing the most favorable terms possible for our clients.
- Attracted a new client to the company based on my reputation working with him at a former job, resulting in two new accounts with an approximate value of 5K per week plus a percentage of tour profits.
- Crafted an innovative multi-layered sales projection and tracking tool in Excel, analyzing ticket sales for the 6-month Toronto sit-down production of Matilda the Musical, which allowed us to advise the producers on the impact of media, opportunities for dynamic price increases, and implementation of discounts where needed.

### Entrepreneurial

- Raised \$500,000 capital and led the producing team of the off-Broadway play JOY at the Actor's Playhouse in NYC, employing several dozen staff and providing the playwright with his New York debut.
- Founded the Broadway Access Initiative, providing over 200 at-risk youth the opportunity to experience live theater.

## EDUCATION

**App Academy** - Immersive 1000-hour software development course with <3 acceptance rate focusing on full stack web development (Spring 2022)

**Rockhurst University** - BS - Business Administration (Management Emphasis). Magna cum Laude. Recipient of *The Wall Street Journal Award* for the highest GPA in the School of Management