

Lianne Bisch | Software Engineer

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[Portfolio](#)

[LinkedIn](#)

[GitHub](#)

Greater New York Area, NY

SKILLS: JavaScript, MobX, React, C++, Ruby, Redux, Rails, Python, SQL, MySQL, PostgreSQL, HTML5, CSS3, AWS, Node.js, Express.js, PHP, jQuery, Bash script, Heroku, Mongoose, Git, Webpack, D3, Google Maps API, MongoDB, CouchDB, Google BigQuery, BioInformatics:Stacks & Populations, Rstudio

EDUCATION:

Providence College - BS Computer Science, Business Certificate, GPA 3.9 Summa Cum Laude

Sept 2015 - May 2019

AppAcademy

Jan 2020 - June 2020

PROJECTS:

Open Playbill *Ruby on Rails, ReactJS, ReduxJS, JBuilder, Google Maps API*

[live](#) | [github](#)

Pixel perfect clone of dining and reservation website OpenTable with a Broadway theme.

- Designed backend search API with pg-search gem for category-based results without additional database queries.
- Applied Google Maps API to individual Broadway show profiles in custom 'MusicalMap' React component which accepts latitude/longitude parameters from parent components and returns a map node configured for the Google Maps API for marker plotting and related functionality.
- Adapted Redux's unidirectional state management to increase speed of search result page and eliminate the need to render a new page.

Fit Challenger *Ruby on Rails, ReactJS, Mongoose, Express*

[live](#) | [github](#)

Fitness website for users to take on fitness challenges and challenge others.

- Collaborated in a group of four as the backend manager, delegating backend DB usage and git check-ins. Administered communication with the front end manager to ensure a seamless user interface.
- Leveraged Express Router to separate different 'challenge' resources and create routes for CRUD actions.
- Incorporated Mongoose to construct schema models for 'challenges' and 'group challenges' by assigning intuitive and flexible data types to reflect the polymorphic association between 'user' and 'challenge' entities.

Is It Over Yet? *JavaScript, D3, COVID19 API, HTML, CSS*

[live](#) | [github](#)

Data visualization that dynamically displays Covid-19 data in the form of bar charts.

- Employed external API to provide statistics by sending XMLHttpRequests to the Covid-19 API and parse the information for incorporation into bar graphs.
- Created a MouseOver function with transition to the DOM so a chart's bars are updated with appropriate style upon user hovering interactions
- Utilized JavaScript's DOM manipulation to create two dropdowns based on data categories and registered OnClick event listeners to filter API response objects and update which data is rendered in real-time

EXPERIENCE:

Software Developer

Artemis Ag

Sept 2020 - Sept 2021

- Worked in small teams to develop crop management features including functionality to allow users to move and discard crops, converting old Rails zone index and show pages to React, and improving global search.
- Increased customer satisfaction by implementing a duplication and editing feature for commonly used crop templates.
- Collaborated with the backend developers at Artemis to add additional data to multiple tables via Ruby migrations.
- Improved the mobile app's crop page's navigation and tasks list by making it easier to find and add details to tasks.

Biology Research Lab Assistant

Providence College & Fordham University

May 2018 - Aug 2019

- Utilized the terminal, bash, Bioinformatics software Stacks & Populations and Rstudio to sequence and graph 1M+ genomes in 10K+ unique rat DNA samples. Constructed a detailed guide as to how to use Bioinformatics software with code templates and explicit instructions for those who do not have a coding/technical background.
- Co-authored Evolutionary Applications Manuscript on the comparative spatial genomics between mice and bats.