

## EXPERIENCE

### Frontend Software Engineer

Lyell Immunopharma

Nov 2019 - present

- Led frontend development to automate experiment workflows which analyze data for cell-based cancer treatments
- Proposed and implemented integration of Google Analytics to track user statistics and monitor usage
- Developed an analysis platform with React/Redux to process plate based arrays and visualize data with VictoryChart library, which reduced scientist workload by 25%
- Advocated for better testing culture by spearheading UI testing using Percy.io to automate end to end testing
- Architected and built a TypeScript/ React web application to track metadata management and enable data traceability for flow cytometry experiments
- Championed migration to TypeScript from JavaScript to write boldly typed applications and minimize user error
- Built UI component library to produce reusable components and streamline frontend design

### Systems Engineer

Agena Bioscience

2016 - 2019

- Collaborated with engineers to develop, verify, and validate new products in compliance with ISO 13485 and 9001
- Executed integration and software testing to verify functionality of clinical products and reviewed validation test plans prior to new product launch

## PROJECTS

Dotify | (React/Redux, Rails 5, HTML5, CSS3, AJAX)

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

A single-page Spotify clone where users can stream music, create playlists, and follow their friends and favorite artists.

- Designed intuitive music player by leveraging React Audio Player and AWS S3 to fetch audio data and stream music in real-time.
- Utilized RESTful API to implement playlist feature which performs CRUD operations

HypnoSpace | (JavaScript, three.js, Web Audio API, AnalyserNode)

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

An original JavaScript project which generates and renders real-time animation synchronized with music.

- Utilized three.js library to create and display animated 3D background and decrease graphic rendering lag.
- Designed dynamic data-visualizations with Javascript implemented algorithms based on any audio upload from user by collecting frequency data repeatedly and drawing a "winamp bar graph style" output of the current audio output.

Cravings | (Yelp API, MongoDB, Express.js, React/Redux, Node.js)

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

An original web application that returns a list of nearby restaurants based on user moods and cravings.

- Processed and dynamically returned recommended restaurants based on user parameters and input by leveraging Yelp API and Google Maps API.
- Implemented query string to pass user criteria using custom Axios calls, hereby reducing the size of the response payload and returning pre-filtered restaurant results to the frontend components.

## SKILLS

TypeScript, JavaScript, Ruby, Python (learning), Ruby on Rails, Git, HTML5, CSS3, Node.js, AWS, Webpack, Parcel, React, Redux

## EDUCATION

University of California San Diego - BS Chemical Engineering, 2012-2016

AppAcademy - 1000-hour immersive full-stack web development intensive with <3% acceptance rate 2019

Work Status- U.S. Citizen