

LISA LAM

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[PORTFOLIO](#)

[GITHUB](#)

[LINKEDIN](#)

SKILLS

JavaScript, React, Redux, HTML, CSS, Ruby, Ruby on Rails, Mongoose, MongoDB, Node.js, Express.js, SQL, SQLite3, PostgreSQL, Webpack, jQuery, Git, Heroku, Python, MATLAB, Java, c++

PROJECTS

Click Click Revolution (Rails, ReactJS)

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

A rhythm game created using JavaScript, HTML, and CSS

- Integrated HTML5 audio with HTML mouse and key events to process and score user interactions.
- Leveraged CSS and AnimeJS library to create a smooth, modern, and responsive interface.
- Implemented multiple interactive screens with javascript event listeners allowing users to navigate between start, song choice, and gameplay displays.

SoundCrowd (Rails, ReactJS)

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

A SoundCloud clone built with Rails and React/Redux

- Integrated Redux with HTML5 media web components to create customized media playback for users.
- Implemented live listening history by leveraging localStorage and React to display user's played songs chronologically.
- Developed a custom algorithm to filter songs by genre to create tailored playlists.
- Implements core CRUD functionality and remotely stores song uploads in the cloud via AWS S3.

Basil (Rails, ReactJS)

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

A rewarding meal-planning site created using MERN stack

- Integrated with Spoonacular API to provide customized weekly meals and meal details.
- Implemented a user reward system storing completed meal information by routing patches to MongoDB and bootstrapping user information for a seamless experience.
- Ensured flawless integration of front-end design through proper git workflow between 3 other engineers.

EXPERIENCE

Structural Engineer II

WSP

Jul 2015 - Jan 2020

- Designed capbeams, columns, foundations, and connections for 4 bridges on the LaGuardia Airport Redevelopment Project, which will be the first new major US airport built in 25 years.
- Responsible for design document production for 50% of structural walls through 4 design phases on the LaGuardia Project.
- Created models of 4 bridges for preliminary substructure seismic analysis on the LaGuardia Project.
- Conducted independent structural analysis to verify effects of large wind gusts on parade balloon handling for the Macy's Thanksgiving Parade for 2 consecutive years.
- Modeled, analyzed, and designed pile layouts for strengthening of existing footings on 5 piers to conform with updated AASHTO regulations.

EDUCATION

Web Development - App Academy

Fall 2020

Immersive software development course with a focus on full-stack web development, which entailed 1000+ hours of coding.

Masters of Engineering, Structural Engineering- Cornell University

Spring 2015

Bachelors of Science, Engineering- Harvey Mudd College

Spring 2014