LISA LAM

(347) 575-5373   lisalam0292@gmail.com   Los Angeles,CA   **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 & CERTIFICATIONS

Web Development - App Academy   Fall 2020
Immersive software development course with a focus on full-stack web development, which entailed 1000+ hours of coding.
Professional Engineer License- New York State   Spring 2015
Masters of Engineering, Structural Engineering- Cornell University   Spring 2015
Bachelors of Science, Engineering- Harvey Mudd College   Spring 2014