

Jose Orea

347.403.1541 jose.orea.15@gmail.com [Portfolio](#) [LinkedIn](#) [GitHub](#) New York / NewYork

SKILLS React.js, Ruby on Rails, JavaScript, jQuery, Ruby, Redux.js, SQL, Git, HTML5, CSS3, p5.js, AWS, PostgreSQL, SQLite3,

PROJECTS

AudioHive | Rails, PostgreSQL, React, Redux, HTML5, SCSS, Webpack, AWS, Heroku, Waveform

[Live](#) | [Github](#)

Music app where users can listen and upload songs created by other users inspired by Soundcloud.com

- Leveraged HTML 5 Audio and Redux to make a slice of state for the player component, creating a music player with persistent audio streaming while the user navigates through the app.
- Structured the state of the Redux cycle and dynamically sync audio waveforms to play-pause toggle buttons on the music player so users have better visual control of a song.
- Optimized the Rails database by incorporating best practices of SQL and Active Record associations thus removing N+1 queries and increasing performance by 40% ensuring dynamic scalability.
- Utilized the Rails back end and AWS S3 to encrypt mp3/image storage for data optimization, organization, and security.
- Developed an interactive user experience with React components local state for song uploads using drag and drop.
- Implemented a formula for the song display carousel movement to create smooth transitions while browsing different songs.

NBA Stats | JavaScript, d3.js, NBA API

[Live](#) | [Github](#)

Data visualization project that clearly and creatively displays an NBA player average stats.

- Utilized NBA API to fetch a player's average stats based on user input in player search field and selection of year options, returning accurate up-to-date information as triggered by respective change events.
- Parsed JSON data from API calls to optimize the structure of arguments passed into custom D3.js-based DOM manipulation functions, rendering a bubble chart comprising dynamic bubble sizes reflective of the best NBA player stats.
- Provided user with an intuitive and recognizable user interface, styled to complement the NBA brand in an easily consumable fashion.
- Optimized search field so that user selection is triggered when typing is finished resulting in only one API call reducing the amount of data coming in.

EXPERIENCE

NYC DOE Math/Computer Science/Robotics Teacher

The Young Women's Leadership School Of Astoria, Aug 2012 - Jun 2019

Astoria, New York

- Initiated the Mayor's CS4ALL Program, created a 7-year computer science track for students.
- Recruited and trained new teachers resulting in a 20% increase of CS teachers in our school.
- Awarded 2017 TYWLS teacher Blue Ribbon award for the most impactful educator.
- Led multiple grade teams (consisting of 4+ teachers and 90+ students), organizing school events, selecting curriculum path, and meeting with administration to discuss any teacher/grade or student concerns.
- Redesigned school tech standards in order for teachers to use in rubrics and grading criteria.
- Collaborated with the technology department to redesign the school tech standards, so that there would be a central location to pull assessment metrics for students.

P5.js Curriculum Developer

NYC CS4ALL, Jun 2017 - Aug 2019

New York, New York

- Advanced the development of NYC4ALL open-source p5.js curriculum
 - Wrote lesson plans which over 40 schools are using in daily lessons.
 - Point person for curriculum and p5.js content question questions.
- Facilitated monthly professional development workshops for over 100 teachers with a focus on teaching p5.js content along with basic vanilla JavaScript DOM manipulation and best practices.

EDUCATION

App Academy - Immersive software development course with a focus on full-stack web development, 1000+ hours (Fall 2019)

CUNY Brooklyn College - BA - Math Education (Spring 2008), MA - Special Needs Generalist (Spring 2015)