

JEFFREY TSENG

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Portfolio: [jeffreyseng3.github.io](https://github.com/jeffreyseng3)

<https://github.com/JeffreyTseng3> <https://www.linkedin.com/in/jeffrey-tseng-32789965/>

SKILLS

React, Redux, Ruby, Rails, Javascript, HTML5, CSS3, SQL, git, Webpack, PostgreSQL, Heroku, Ansible, Socket.io, Raspian, Node, Express, AWS, S3

PROJECTS

Dropify (React, Redux, Ruby, Rails, JBuilder, Heroku)

<https://github.com/JeffreyTseng3/dropify>

<https://dropifyy.herokuapp.com/>

This is a single-page clone of Spotify where users can browse artists, albums, and playlists to play their favorite songs

- Utilized Audio Web API to build custom music player functionality to queue songs according to user request and to the user's current browsing selections
- Developed a search feature which utilizes Active Record and custom routes to optimize queries and reduce load times according to search input
- Implemented playlist creation and custom song selection to individualize the user's streaming preferences

Wave Runner (Javascript, p5)

<https://github.com/JeffreyTseng3/waverunner>

<https://jeffreyseng.com/waverunner/>

A side-scrolling platform game that renders audio waveforms and obstacles for the user to bypass

- Constructed algorithms for collision detection by evaluating and surveying the intersection of object profiles between objects
- Utilized p5 JavaScript library to build sound waveforms by analyzing and storing audio amplitude to generate interactive game boundaries

EXPERIENCE

Museum of Sex, New York, NY

Software Developer, Contractor

Nov 2019 - April 2020

- Built a live streaming chatroom web application for an interactive art installation demonstrating online camming
 - Developed chat functionality with Socket.io / JQuery to support bidirectional and event-based communication through a Node / Express backend and a React frontend, deployed an AWS Ubuntu server
- Improved functionality of an installation which features games implemented by web applications
 - Maintained over 70 Raspberry Pi web servers using Ansible, and automated tasks and updates through playbooks
 - Utilized OSC protocol to communicate between user input pressure signals to server-controlled lighting fixtures

Faith Bible Inc., New York, NY

Teacher, Afterschool Program

Nov 2018 – April 2019

Raytheon Missile Systems, Tucson, Arizona

Cryogenic Gas Engineer, Metrology Department

Aug 2016 - June 2018

- Maintained high importance cryogenic gas quality for ten domestic and international sites to ensure customers' naval missile defense capabilities

The Boeing Company, Everett, Washington

Manufacturing Engineering Intern, Interior Responsibility Center

May 2015 - Aug 2015

Fiat Chrysler Automobiles, Sterling Heights, Michigan

Manufacturing Engineering Intern, Chrysler 200 Assembly Operations

May 2014 - Aug 2014

EDUCATION

Web Development - App Academy (Spring 2019)

BE Mechanical Engineering - Stony Brook University, Spring 2016, GPA: 3.73 / 4.00