

JEFFREY TSENG

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Portfolio: <https://jeffreyseng3.github.io/>

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SKILLS

React, Redux, Ruby, Rails, Javascript, HTML5, CSS3, SQL, git, Webpack, PostgreSQL, Heroku

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://jeffreyseng3.github.io/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
- Integrated sprite sheets to generate animations based on user input

EXPERIENCE

Raytheon Missile Systems, Tucson, Arizona

Cryogenic Gas Engineer, Metrology Department

Aug 2016 - June 2018

- Performed high pressure and high purity gas quality testing for ten domestic and international sites' cryogenic gas delivery systems to ensure customers' naval missile defense capabilities
- Developed a process to assess possible oxygen depletion in high-risk areas and to expedite the installation of oxygen monitoring equipment, increasing work safety
- Coordinated with cross-function gas and chemical group for acquisition of refrigerants and bulk, cylinder, and calibration gases to meet production and engineering deadlines

The Boeing Company, Everett, Washington

Manufacturing Engineering Intern, Interior Responsibility Center

May 2015 - Aug 2015

- Created an online organizational tool adopted by engineers, designers, and supply chain to maintain schedule and communication for new customer products on Boeing-737 planes, resulting in a 20% time savings

Fiat Chrysler Automobiles, Sterling Heights, Michigan

Manufacturing Engineering Intern, Chrysler 200 Assembly Operations

May 2014 - Aug 2014

- Developed stations to optimally contain weld expulsion, resulting in an 80% reduction of cleanup time, which was presented to Chrysler's Manufacturing VPs and Directors

EDUCATION

Web Development - App Academy (Spring 2019)

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