

# JEFFREY TSENG

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

<https://github.com/JeffreyTseng3>

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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