

# Daniel Chang

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## SKILLS

Ruby

Rails

Rspec

SQL

HTML/CSS

Git

JavaScript

jQuery

React Native

React

Redux

Arduino

## PROJECTS

### WatchTube [Rails, React, Redux]

[Live](#) • [Github](#)

*Web application for streaming and sharing videos, inspired by YouTube.*

- Leveraged React/Redux frameworks to deliver a single-page app allowing users to search, view, and comment on videos
- Integrated Cloudinary's cloud-based service for direct uploading of video and image files
- Implemented real-time search by video title or description with query strings as database filters

### Droplt [JavaScript, jQuery, Canvas]

[Live](#) • [Github](#)

*Interactive browser-based soundboard.*

- Rendered custom animations on HTML5 Canvas element
- Incorporated anime.js and howler.js libraries to synchronize animations and sound effects upon page load and key input

### Shiparoo [Rails, React, Redux, React Native]

[Live](#) • [Github](#)

*Mobile & Web application to track and receive SMS updates on packages.*

- Integrated Shippo and Google Maps API to retrieve package status and provide visual tracking history
- Utilized WebHook and Twilio's API to send SMS messages for PIN verification and real-time updates on shipments

## EXPERIENCE

### Research Assistant – The TEC Center

**AUG 2015 – JUN 2016**

- Prototyped 3D lab instruments using SOLIDWORKS to construct a functional Coulter counter and bioreactor capable of growing and nurturing cells
- Designed printed circuit board schematics using EAGLE to automate bioreactor

### Bioengineer – Optiloupe

**SEP 2015 – JUN 2016**

- Engineered a digital surgical loupe with adjustable magnification levels through continuous measurement of brain activity
- Developed Arduino code to create communication between EEG and microcontroller, allowing microcontroller to record data

## EDUCATION

### University of California, Riverside

**2011 – 2016**

*Bachelor of Science in Bioengineering*