

# 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.*

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

### Dropt [JavaScript, jQuery, Canvas]

Live • Github

*Interactive browser-based soundboard.*

- Renders custom animations on HTML5 Canvas element
- Incorporates 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.*

- Integrates Shippo and Google Maps API to retrieve package status and provide visual tracking history
- Utilizes 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*