Daniel Chang

101 South Ashton Ave. • Millbrae, CA • 94030
(650) 455 – 9868
daniellawrencechang@gmail.com

daniellchang.com github.com/DanielLChang linkedin.com/in/daniel-chang

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

DropIt *[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