


# Brian Tsai

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## EXPERIENCE

**Musician Hub** | React, Ruby on Rails [live](#) | [github](#)

*Single-page application for users to download music from their favorite artists*

- Built a music player that allows for continuous playback while browsing site, used Redux cycle to preserve state of songs: even when React components change, the playback is unaffected
- Created a RESTful songs architecture with Rails MVC that incorporated the Cloudinary API; extracted song urls from Cloudinary to Rails database, allowing users to play and download music

**Liftables** | React Native, Firebase [live](#) | [github](#)

*Mobile app that creates your own customized workout schedule*

- Utilized Firebase API and designed JSON schema to update NoSQL database based on user input
- Created reusable components using React Native to update responsively based on backend; customized Calendar API and mobile navigation from npm modules

**Pikachu Racer** | JavaScript, Canvas [live](#) | [github](#)

*JavaScript side-scrolling game inspired by Super Mario*

- Created the player and obstacles using Entities and Sprites to animate images and update their positions, and implemented collision detection
- Devised a game loop that utilizes requestAnimationFrame to render images every frame

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## SKILLS

- JavaScript
- React/Redux
- React-Native
- Node.js
- Firebase
- SQL
- Java
- Ruby/Rails
- HTML/CSS

## EDUCATION

**App Academy** Sept. 2016 - Dec. 2016

Built fullstack apps and mastered web development, computer science algorithms

**De Anza College** Sept. 2015 - Jun. 2016

Programming in JAVA: Certificate of Achievement | GPA: 3.8

**University of California, San Diego (UCSD)** Sept. 2009 - Aug. 2014

BA: Interdisciplinary Computing and the Arts Major | GPA: 3.36

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## OTHER EXPERIENCE

**Audio Engineer - White Umbrella Studio** Mar. 2015 - Jun. 2015

- Oversaw audio operations for film productions, which included researching equipment and utilizing DSP audio techniques for post-production using Adobe Premiere Pro
- Created 4 videos/month on YouTube and Vine

**Marketing Assistant - Sleeping Giant Music** Sept. 2011 - Jun. 2012

- Built HTML/CSS newsletters biweekly in Adobe Dreamweaver; overhauled the old tagging system for the company's new blog and reorganized more than 500 old blog posts
- Evaluated Google Analytics to increase Facebook/Twitter followers for more than 10 artists; increased traffic for artists by more than 50%.