

# ISAAC OWENS

Software Engineer

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**SKILLS** React, JavaScript, Redux, HTML, CSS3, Sass, Ruby, Ruby on Rails, Mongoose, MongoDB, Node.js, Express.js, SQL, PostgreSQL, Webpack, jQuery, Git, Heroku, Business Management

## PROJECTS

### UPEPO

[Live](#)

[Site](#) | [Github](#)

*Upepo allows users to play instruments on webcam* (Javascript, HTML, Canvas, Sass, Webpack, Web Audio API, MediaDevices API)

- Constructed motion detection functionality solely with a **Javascript** diffing algorithm that detects differences in pixel values between webcam frames.
- Utilized diff algo to register motion and concurrently trigger an audio event callback on motion detection allowing user **interaction with sound files through webcam**.
- Created functions to allow for switching between three different instrument sounds by tracking the selected instrument with a window variable and passing that variable through various event listener callbacks.

### Sosofly

[Live Site](#) | [Github](#)

*Clone of Spotify. Users create playlists and stream audio* (React/Redux, Javascript, HTML, CSS, Ruby, Ruby on Rails, PostgreSQL)

- Utilized **ajax requests** on the backend to pull audio data requests from **AWS S3** buckets (chosen for fast, inexpensive, and reliable storage) returning audio data to be loaded into audio tag elements and triggered by events in **React** components.
- Created **Ruby on Rails Active Record** associations, utilizing 'many-to-many' relationship for audio tracks and playlists. Keeps queries **quick and effective on the backend** and allows for more efficient querying and dynamic database interface.

### GetSet - (Team Lead)

[Live Site](#) | [Github](#)

[Github](#)

*MERN Stack photo comparison, scavenger hunt game* (React, Redux, Javascript, Node.js, Mongoose, MongoDB, Express.js, Axios)

- **Organized effective 3 developer team** to create functional app in 1 week by delegating most experienced dev as Team Asst/Flex role to keep front and backend production smooth, allowing for **focus on resources and management**.
- Developed design documentation and project documentation while managing team work and delegating daily tasks. I **maintained information on technologies, challenges, and accomplishments** to create a 'story' of our app's development and provide the team with a base of information on work direction and common goals.
- Facilitated **back and frontend collaboration**, coordinating integration of backend **Axios** routes and fronted state to ensure smooth implementation of dynamic frontend rendering, saving time on debugging and maintaining naming conventions.

## EXPERIENCE

### Founder/ Owner

*MOJO Fitness Personal Training*, Apr 2015 - Mar 2020

- **Collaborated with graphic designer** to create dynamic brochure website
- Instituted a **word-of-mouth referral campaign** resulting in **2 prospective client outreaches per month** on average
- Maintained **10 full-time clients with a 92% retention rate**
- Created records system through Google Drive maintaining **quarterly financial statements, tax records, and client invoices**
- **Spearheaded monthly subscription campaign** causing a **\$5,000 increase in revenue** during the personal training slow season

### Music Director

*Jane DO*, Sep 2019 - Mar 2020

- **Brainstormed with CEOs** to address ineffective organization of playlists and music distribution across multiple

studios, in the process creating a **new system for musical organization** and the position of Music Director for myself

- Organized and **conducted music workshops during team meetings** addressing self-made company policy and future direction of music over 4 studios spanning New Jersey to Manhattan

## EDUCATION

**App Academy**, Spring 2020, Immersive software development course with focus on full stack development, 5% acceptance rate

**University of North Carolina School of the Arts**, 2006-2008, BFA Contemporary Dance, 32.6% acceptance rate

**Harvard's CS50 Course**, *Intro to Computer Science course teaching OOP, Python, C, algorithms, and MVC Frameworks*

**Codecademy** - Learn Ruby on Rails, Learn Ruby