

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

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](#)

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