

Nicholas Bacon

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SKILLS

Databases: **PostgreSQL, SQLite** Testing Frameworks: **RSPEC, Jasmine, Capybara** Backend: **Python, Ruby, Ruby on Rails, Rack(middleware)** Frontend: **Javascript, JQuery, HTML5, CSS3, SCSS, Vanilla DOM Manipulation, AJAX, ActionCable, React.js, Redux**

WORK SAMPLES

OUTDOOR ADVENTURE WORLD

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

(Ruby on Rails, JavaScript, JQuery, PostgreSQL, HTML, SCSS)

Full-stack React Native application showcasing a single page React/Redux cycle.

- Designed a back-end search bar responding in real time by querying numerous columns in a PostgreSQL database.
- Crafted A hand-rolled backend user authentication system with cookies to prevent malicious behavior using Bcrypt to encrypt the passwords.
- Deployed a persistent shopping cart by using join tables.
- Implemented custom route behavior for actions to streamline backend AJAX requests

Works In Progress

MOBILE SURROUND

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

(Rails/Javascript/HTML5/SCSS/Git workflow/Action Cable)

A music playing program for cellphones, that starts all phones audio synchronously to play different audio tracks.

- Achieved simultaneous audio play across multiple devices using a hand crafted synchronization algorithm which utilizes an external source of truth(GPS) to determine the start time.
- Created a channel splitting backend to play different channels of an audio file on each device (ie: each phone will play a unique choice of speaker location (FL, FR, FC, BR, BL) or audio channel (guitar, vocals, bass, percussion, etc)

WEATHER FORECAST

(HTML, CSS, JavaScript)

[Herokuapp](#)

A website which determines present location and returns to the user their current weather.

- Using the Weather Underground API, and the user's latitude and longitude, I automated finding the current weather conditions for the user.
- Displays dynamic html styling by adding and removing classes to change imagery based on the determined weather, or chosen location.

EXPERIENCE/EDUCATION

App Academy (Fall 2017)

Immersive software development course with focus on full stack web development

De La Salle Collegiate High School (Warren, MI.)