

JAY PUNTHAM-BAKER

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PROJECTS

SoundClub - [Rails, React.js, Redux, PostgreSQL] [GitHub](#) - [Live](#)

A lightweight music distribution platform based on SoundCloud

- Developed a hand-styled, single-page application with continuous play audio, comments, likes, follows, and uploads that uses AWS S3 for audio and image file storage via the Paperclip gem
- Built a custom audio player that wraps a HTML5 audio tag that enables users to pause, play, skip, and view the time elapsed and duration of a song using React.js
- Created reusable and modular components such as play and pause buttons, and song lists in order to maintain DRY code and minimize the complexity and time required for refactoring

Closest Citibike - [Flask, Python 3, JavaScript, Messenger Chatbot] [GitHub](#) - [Live](#)

A mobility app that returns the closest Citibike stations based on bike & dock availability

- Implemented a [Facebook Messenger chatbot](#) using webhooks and the Python request library
- Accepts and interprets location name & map location messages via the Google Maps geocoding service and returns the 3 closest Citibike stations with available bikes and docks
- Employs the Citibike API to retrieve and process raw station data, and the Google reverse geocoding service to provide users with recognizable location names

Weather Radials - [React.js, Redux, D3.js] [GitHub](#) - [Live](#)

A historical weather visualization tool that generates radial weather diagrams

- Implemented a radial weather visualization that allows users to view climate data for a number of example locations or search for any location in the world
- Employs the NOAA NCDC: Climate Data Online API to access global, historical climate data and the Google geocoding service to convert location names into coordinates

Mono - [Ruby, Rack] [GitHub](#) - [Live Site](#)

An ultra-lightweight, pure-rack web framework

- Includes embedded Ruby (erb) template rendering, cookies, & a configurable router
- Implemented a light-weight version of Rails' Active Record, and the ability to host static assets

SKILLS

Ruby, Rails, Python, Flask, JavaScript, React.js, Redux, Webpack, RSpec, SQL, Git, HTML5, CSS3, AWS, Heroku, Chatbots, jQuery, OriginPro, Mathematica

EDUCATION

App Academy – New York, NY February 2017 – May 2017

Full-Stack Web Development

- Full stack web development course focused on Rails, pair programming, and test driven development

University of Illinois at Urbana-Champaign - Champaign, IL Sep 2009 – May 2014

B.S. Materials Science & Engineering, B.A. Economics

Minor in Technology & Management

- GPA: 3.6/ 4.0 ; Graduated with Honors (cum laude)
- Coursework: Multivariable Calculus, Differential Equations, Linear Algebra, Probability & Statistics, Econometrics

WORK EXPERIENCE

KPMG LLP - New York, NY August 2014 – February 2017

Associate, Management Consulting, Advisory

- Designed and built 9 process automation proofs of concept for 2 multinational financial institutions and a large food & beverage company to demonstrate cost savings and develop potential project leads
- Performed workshops to assess the suitability of candidate processes for automation in areas such as tax, technology, human resources, pricing, and accounting to help clients improve productivity and reduce costs
- Contributed to 3 process automation project proposals for a multinational insurance company, a large investment bank, and a multinational telecommunications company.