Tristan Blarel

Bay Area, California | 202-277-1640 | tblarel@gmail.com | portfolio | linkedin | github

Skills

Ruby, Ruby on Rails, JavaScript, jQuery, React.js, Redux, SQL, Git, PostgreSQL, HTML5, CSS3, Sketch, Adobe CC, Unity, Java, C#, C++

Projects

MyBnB *Ruby on Rails, React.js , Redux, PostgreSQL, Amazon AWS, HTML, and CSS*   live site | github
A single page application inspired by AirBnB.

- Developed **RESTful API** routes in Ruby on Rails for storing & retrieving User and Listing data, reducing server load through the utilization of **ActiveRecord** associations to extract data from multiple tables in a single query
- Implemented full user authentication using **Bcrypt** to ensure secure signup and login, storing only salted & hashed passwords on backend
- Built react components to filter listings by price, number of guests, or geolocation through **Google Maps API,** combining all filter parameters from **Redux** State into a single **AJAX** call to the backend API.
- Implemented methods in **JavaScript** to block pre-booked dates on a listing's calendar and to check for conflicting bookings on the Front End to prevent overlapping reservations being created

Sonify   *Python, Django, AJAX, JavaScript, HTML5, and CSS3,*   video demo | article
Univ. Miami Capstone Senior Design Project. A sonically based recommendation engine that uses Machine Learning to analyze and provide recommendations based off a song's acoustic properties.

- Awarded **Best Overall Senior Design Project** and **Industry Impact Award** out of over 600 students
- Wrote **AJAX** calls to **Spotify API** to extract features and serve recommended songs' album art & audio previews
- Created views in **Django** to utilize backend audio analysis and recommendation algorithms; designed and implemented responsive interface and custom loading animations with CSS & JavaScript & Media Queries for a cohesive front-end experience

PokeAnalysis *React, Express, Node.js, and MongoDB*   live site | github
Social platform for Pokemon Team building & analysis.

- Integrated with PokeAPI to fetch detailed information and sprites of all recognized Pokemon
- Implemented a social feed of shared teams, following **Atomic Design** principles to create efficient and reusable **React** components for comments, likes, and teams.

Education

University of Miami Fall 2014 - Spring 2018

B.S. - Computer Engineering
Data Structures & Algorithms Analysis, Machine Learning, Principles of Artificial Intelligence, Database Systems

App Academy   Spring 2019

Intensive 1000-hour software development course with < 5 % acceptance rate
Focus on full-stack development: Rails, SQL, JavaScript, React, Redux, TDD, algorithms, design patterns, pair programming and best coding practices

Experience

Student Web Designer
University of Miami Information Technology   April 2017 - May 2018

- Completed redesign of Student Support Website using **HTML5**, **CSS3**, and **Zurb Foundation** on Unix Server that resulted in a modernized design and improved responsiveness for device sizes
- Designed promotional and informative publications in **Photoshop** & **InDesign** for use by hundreds of Staff and Students

Web & Graphic Designer
University of Miami School of Architecture   Jun 2017 - May 2018

- Planned and implemented new graduate program website in Cascade CMS, resulting in a responsive modern site with a streamlined navigation structure
- Designed promotional material for web, email, upcoming events, and conferences attended by hundreds using **Photoshop** & **InDesign**