

ANTHONY MARZE

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TECHNICAL SKILLS React, Rails, JavaScript, Ruby, jQuery, Redux, TDD, HTML5, CSS3, SQL, Git, ArcGIS

PROJECTS

Swirl Tracker 6 (JavaScript, HTML5, CSS3, Webpack, Mapbox GL JS)

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

A data visualization tool to view historical hurricane tracks and their associated data at different points in time.

- Designed a responsive UI using HTML inputs to filter geoJSON source-layer properties with Mapbox GL JS events to selectively redraw related vector layers.
- Implemented an animated line feature with a color gradient relating to wind speeds to highlight the evolution of a storm's lifecycle.
- Synthesized a 200,000 line dataset into targeted geoJSON point and line objects with aggregate properties allowing for quicker rendering when displaying many features.

Struggle (Ruby on Rails, JavaScript, React, Redux, CSS3, Webpack, PostgreSQL, Google Maps API)

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

An homage to the workout app Strava. Allows users to create and save workout stats and running or biking routes

- Serialized route coordinates and distance + elevation data into a postgresQL database via Google Maps' Routes and Elevation APIs, allowing users to draw, drag, and save custom routes representing their workouts.
- Constructed a user signup and login page where email uniqueness and password length are validated at the Rails model level, and users remain logged in across sessions with the aid of cookies.
- Generated a user activities form incorporating 6 unique data types which parses current time to autofill activity name and time inputs, allowing for faster data entry.

EXPERIENCE

Think English Kids

Zhuhai, Guangdong, China

English Teacher

March 2018 – April 2019

- Recruited and re-signed over 45 students in my English classes (the most of any foreign teacher in 2018).
- Revitalized the school's summer and winter camp curriculums with a STEM focus to cater to parents' interests.

Working Holiday Visa Program

Australia & New Zealand

Seasonal Agricultural Worker

June 2016 – March 2018

- Adapted to 7 different agricultural production roles, work environments, and workplace cultures.

Penn State Geography Dept.

Moshannon State Forest, Pennsylvania

Field Technician (MATLAB, ArcGIS)

May 2013 – August 2013

- Tracked between 30-40 timber rattlesnakes using radio telemetry to record their summer movements.
- Interpreted ArcGIS generated slope data with a custom MATLAB script to characterize the samples' den environment.

EDUCATION

App Academy

New York, New York

Curriculum of Study in Web Development (Ruby on Rails and JavaScript)

August – November 2019

Pennsylvania State University

State College, Pennsylvania

Bachelor of Science in Geoscience (Minor: Geographic Information Systems)

August 2011 – December 2015