

# ANTHONY MARZE

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## TECHNICAL SKILLS

React, Ruby on Rails, JavaScript, SQL, Redux, TDD, HTML5, CSS3, jQuery, Git, Mapbox GL JS, Google Maps API, Node.js, Leaflet, D3.js, AWS

## PROJECTS

**Swirl Tracker 6** (JavaScript, HTML5, CSS3, Webpack, Mapbox GL JS, node.js, D3.js)

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

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

- Developed a responsive UI using HTML inputs to filter geoJSON source-layer properties with Mapbox GL JS events to selectively redraw related vector layers
- Implemented line features with color gradients relating to wind speeds, highlighting 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 postgresSQL 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

**Japan Overseas Investment Co. Ltd.** [Live Site](#)

**Tokyo, Japan (Remote)**

Web Developer (*HTML5, CSS3, JavaScript, PHP, Bootstrap*)

2018 – Present

- Designed a professional, mobile-first website via bootstrap, CSS flex properties, and media queries
- Enabled bilingual (English/Japanese) support with instant switching via a JS script that toggles "lang" tags
- Built a direct messaging form using a PHP script to direct inquiries to the company receptionist's email
- Organized the company's domain registry, hosting, DNS settings, SSL certificates, and employee email addresses

**Think English Kids** *Primary English Teacher*

**Zhuhai, China** (2018 – 2019)

- Rewrote the school's summer and winter camp curricula with a STEM focus to cater to parents' interests

**Working Holiday Visa** *Viticulturist*

**Australia & New Zealand** (2016 – 2018)

- Maintained vineyards throughout their yearly production life-cycle in Australia and New Zealand

**Penn State Geography Dept.** *Field Technician (MATLAB, GNU Octave, ArcGIS)*

**Central Pennsylvania** (2013 - 2014)

- Interpreted ArcGIS slope data with a custom MATLAB script to characterize the studied snake samples' den locations

## EDUCATION

**App Academy**

**New York, New York**

*Curriculum of Study in Fullstack Software Development (Ruby on Rails, JavaScript, React, TDD)*

2019

**Pennsylvania State University**

**State College, Pennsylvania**

*Bachelor of Science in Geoscience (Minor: Geographic Information Systems) GPA: 3.5*

2011 – 2015