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Recent Projects

petLove | JavaScript, React, Redux, Rails, PostgreSQL

Live Site - <http://pet1ov3.herokuapp.com/>

Github - <https://github.com/matty-liu/petlove>

Single page app for pet owners to help set up playdates for their pets, inspired by okCupid.

Communicates with a RESTful JSON rails API for logical and efficient CRUD management.

Saves user submitted images to AWS (via Paperclip) for easily scalable storage of user submitted content.

Features a matching algorithm that calculates a compatibility score which queries the database and returns a list of compatible users, reducing matching and scalability issues from comparing arrays of answers.

PopularTimes Manhattan | JavaScript, Google Maps API, Google Places API

Live Site - <http://mattyliu.com/popularTimesMapManhattan/>

Github - <https://github.com/matty-liu/popularTimesMapManhattan>

Implements Google Places API to fetch customer traffic data and creates data responsive markers on Google Maps.

Highlights an expressive users interface with dynamic updating and re-rendering of data points based on the user specified time and day of week.

DOMination | JavaScript

Github - <https://github.com/matty-liu/DOMination>

JavaScript library for beginners to help understand and manipulate the DOM.

Allows users to make core DOM manipulation, AJAX requests, and event handling using the native DOM/JavaScript API.

Adopts a semantic naming system for easier understanding of DOM manipulation functions for beginners.

Skills

JavaScript, jQuery, AJAX, React.js, Redux, SQL, Ruby, Rails, HTML5, CSS3, GIT, AWS

Experience

Department of Science, Randolph High | Randolph, MA | (Fall 2011-Summer 2015)

Secondary Level Educator, High School Chemistry Teacher

Worked primarily with low income communities to develop strong foundational understanding in basic science and chemical principles.

Lead chemistry department in designing/planning the chemistry curriculum and fostered interdisciplinary collaboration with other academic departments.

Private Tutor / Homeschool Teacher | (Summer 2007 - Fall 2017)

Self Employed

Tutored over 100+ students in a variety of science and math disciplines. Topics included high school and college level math and science courses (general chemistry, organic chemistry, physics, algebra, geometry, trigonometry, calculus), & standardized test prep (SAT/GRE/MCAT prep).

Education

App Academy | (Fall 2017)

Immersive software development course with focus on full stack web development

Rigorous 1000 hour web development bootcamp with < 3% acceptance rate.

University of Massachusetts, Amherst, MA | (Fall 2007 - Spring 2011)

Bachelors of Science in Chemistry, Magna Cum Laude

Grade Point Average: 3.796 / 4.000

Undergraduate Thesis in Chemical Education

Evaluating Student Learning in Organic Chemistry through Electronic Exams