

INFORMATION

- New York, NY
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- [Github](#) • [LinkedIn](#)
- [Portfolio](#) - www.mattyliu.com

SKILLS

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

EDUCATION

App Academy (Fall 2017)

Immersive software development course with focus on full stack web development and fundamental computer science principles

1000 hour web development program with < 3% acceptance rate.

University of Massachusetts (Fall 2007 - Spring 2011)

B.S. Chemistry, **Magna Cum Laude**
GPA: **3.796** / 4.000

Undergraduate Thesis in Chemical Education

Evaluating Student Learning in
Organic Chemistry through Electronic
Exams

Matthew Liu

Software Developer

PROJECTS

petLove | JavaScript, React, Redux, Rails, PostgreSQL WebApp [Live Site](#) | [Github](#)

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 to overcome user matching issues which resulted in more efficient user matching generation.

PopularTimes Manhattan | JavaScript, Google Maps API Data Visualization [Live Site](#) | [Github](#)

Data visualization illustrating how busy businesses are

- 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 JavaScript Library [Github](#)

JavaScript library to help with altering the DOM inspired by jQuery

- 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

EXPERIENCE

Department of Science, Randolph High (Fall 2011 - Summer 2015) Secondary Level Educator

- Worked in low income communities to develop strong foundational understanding in science and math.
- 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

- Worked with 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).