Matthew Liu
Software Developer

INFORMATION

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

SKILLS

JavaScript	**Ruby**
jQuery	Rails
React.js	**Flux/Redux**
HTML5	CSS3
SQL	**GIT**
PostgreSQL	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

PROJECTS

petLove | JavaScript, React, Redux, Rails, PostgresSQL
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, computer science), & standardized test prep (SAT/GRE/MCAT prep).