

## INFORMATION

Boston, MA  
857-939-1287  
[mattkliu@gmail.com](mailto:mattkliu@gmail.com)

[matty-liu.github.io/](https://matty-liu.github.io/)  
[github.com/matty-liu](https://github.com/matty-liu)  
[linkedin.com/in/matthew-liuu](https://linkedin.com/in/matthew-liuu)

## SKILLS

JavaScript	Python/Ruby
Vue.js/React.js	Django/Rails
Vuex/Redux	Linux/UNIX
Webpack	GIT
Jest	AWS
HTML5	Docker
SCSS/CSS3	ElasticSearch
SQL	Logstash
Java/Jython	Kibana

## EDUCATION

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  
through Electronic Examinations  
(Organic Chemistry)

# Matthew Liu

## Software Engineer

## EXPERIENCE

**GridUnity** (Spring 2018 - Current)

Technical Lead, Senior Software Engineer, Frontend Engineer

- Lead multiple projects as a technical lead to define and execute engineering strategy to ensure successful project delivery
- Built web based tools/services communicated on a RESTful JSON api for proprietary low code / no code platform. Tools and services ranged from a configurable workflow and form builder, third party integrations (PayPal, DocuSign), grid data visualization, and distributed grid simulation analysis.  
(JavaScript/Vue.js, Java/Spring/Jython, Python)
- Modernized Frontend/UI to be reusable, componentized, testable, themeable, responsive, and ADA Compliant (A11Y) with improved UX. (JavaScript/Vue.js, SCSS, Jest, Webpack/Vite)
- Supported transition of infrastructure to docker and AWS to provide a reproducible, efficient, and scalable cloud architecture  
(Docker, AWS, ElasticSearch/Logstash/Kibana, UNIX/Linux)

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

Secondary Level Educator - Chemistry

- 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, Part Time (2007-2015), Full Time (2015-2018)

- 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).

## PROJECTS

**Populartimes Manhattan** | JavaScript, Google Maps API | 2018

Data Visualization

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

Visualization illustrating how lively businesses are

- Utilizes Google Places API to fetch customer traffic data and creates data responsive markers on Google Maps
- Highlights an expressive user interface with dynamic updating and re-rendering of data points based on user selected time and day of week