Matthew Liu
Software Engineer

INFORMATION

Boston, MA
857-939–1287
mattkliu@gmail.com

matty-liu.github.io/
github.com/matty-liu
linkedin.com/in/matthew-liuu

SKILLS

JavaScript	Python/Ruby
Vue3/Vue2	Django/Rails
Pinia/Vuex	Linux/UNIX
PNPM/Yarn	GIT
Vite/Webpack	AWS
Jest	Docker
HTML5	**ElasticSearch**
CSS/SCSS	Logstash
SQL	Kibana
Java/	

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)

EXPERIENCE

GridUnity   **(Spring 2018 - Current)**
Technical Lead, Senior Software Engineer, Frontend Engineer
- Lead multiple projects as technical lead to define and execute engineering strategy / implementation to ensure successful project delivery within constraints and broader engineering vision
- 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 a low income community 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