Matthew Li

Software Engineer · Problem Solver

Palo Alto, CA · 4569 Frist Center, Princeton University, Princeton, NJ

(+1) 650-862-9586 | ml25@princeton.edu | matthewli.me | 1matthewli | 1matthewli

Education

Princeton University *Sep. 2015 - Jun. 2019*

Computer Science · Bachelor of Science and Engineering · GPA - 3.9 ***Princeton, NJ***

- Majoring in Computer Science, pursuing certificates in Finance, Machine Learning & Stats, Engineering & Management Systems.
- Relevant coursework: Algorithms, Data Structures, Systems, Functional, Neural Networks, Distributed Systems, Discrete Math.

Palo Alto High School *Aug. 2011 - Jun. 2015*

Honors Student, AP Statistics Teaching Assistant · GPA - 4.0 ***Palo Alto, CA***

- Awarded with National AP Scholar, National Merit Scholarship Finalist, one of 19 perfect scores in AP Computer Science.
- Competed in USA National Computing, Physics, Math Olympiads, received Finalist Silver Medal in Physics.

Experience

Google *Jun. 2017 - Sep. 2017*

Software Engineering Intern ***Mountain View, CA***

- Worked intensively as a core member of Google's Play Analytics Viz team to brainstorm and create numerous features for a large-scale data visualization tool. Heavily involved in meetings with PMs, data scientists, UX designers and software engineers.
- Highlights include creating a highly requested feature that allows users to aggregate and compare differences between sets of up to billions of data points in an efficient, clear, and consistent manner. Developed full stack from writing SQL queries, processing data through server-side logic in Java, to adding front-end filtering options and user interface components in JS and Angular.
- Participated actively in writing and reviewing code all across the project codebase, as well as reporting and fixing bugs prior to the release of the second version of our team's product.

PayPal *Jun. 2016 - Sep. 2016*

Software Engineering Intern ***San Jose, CA***

- Conducted numerous independent, innovative web development projects within PayPal's Global Product & Engineering division.
- Adapted a fully configurable and generic editor to generate form elements based on specified JSON schemas and applied it to numerous object entities, replacing error-prone manual Postman HTTP requests.
- Developed from scratch a Chrome extension to streamline the localization QA process, extensively using Node.js, React, Redux, jQuery, and JavaScript. Features include: full-page pseudo-localization on the fly, and hidden encoding and decoding for string file and key origins. Due to success of extension, became sole intern from division to present project at Tech Exposition.

Princeton University Computer Science Lab *Sep. 2016 - May 2017*

Teaching Assistant, Peer Tutor ***Princeton, NJ***

- Assisted students across four undergraduate computer science courses, including Algorithms & Data structures, and Systems Programming. Provided one-on-one help to around 20 students per week through giving debugging guidance.
- Position involves strong familiarity with computer science fundamentals in both Java and C, and knowledge of solid debugging tools and techniques. Exercised ability to interpret and trace code quickly and efficiently, detecting any error-prone areas.

Hackathon Projects *Nov. 2015 - present*

HackPrinceton Fall Winner ***Princeton, NJ***

- Created a web application to display a stream of behavior-imitating tweets based off of real-time generated Markov models constructed from Twitter Rest API queries. Queries and Markov model implemented in Python, server hosted on Linode, and site created with Bootstrap and ReactJS.
- Developed a face-to-student matching web application for Princeton: users picture a face and select increasingly similar-looking faces until said student appears, modeled by an N-dimensional graph search on pair-wise similarity vectors. Image processing conducted through OpenBR face recognition API, website served through Meteor, data scraper and parser written in Python.

Princeton Entrepreneurship Web Development *Sep. 2015 - present*

Web Developer, iOS Team Leader ***Princeton, NJ***

- Website and application development for various divisions of Princeton's Entrepreneurship Club, including HackPrinceton, TigerLaunch, and TigerTrek. Renovated organization's main website, primarily used for sponsorship and recruitment.

Skills

Languages	Java, Python, JavaScript, HTML, CSS, C, C++, OCaml, Assembly, Bash, LaTeX, Swift, MATLAB
Technologies	React, Redux, Node, jQuery, Angular, Chrome, iOS, Github, Ajax, Linux, Bootstrap, Heroku, Postman
Concepts	Web Development, User Interface, Image Processing, Algorithm Design, Full Stack Development