Matthew Li

San Jose, CA | linkedin.com/in/li-matthew | mtthw.li7@gmail.com | (408) 859 4481
li-matthew.github.io | github.com/li-matthew

EDUCATION

Purdue University **Aug. 2018 – Dec. 2021**
B.S. in Computer Science, Data Science ***West Lafayette, Indiana***

- **Relevant Coursework:**
  Problem Solving and Object-Oriented Programming, Data Structures and Algorithms, Data Mining and Machine Learning, Information Systems, Intro to Artificial Intelligence, Intro to Relational Database Systems, Intro to Database Management Systems, Software Engineering

SKILLS

Languages: Java, Python, C++, C, JavaScript, HTML/CSS, SASS, SQL, R, TypeScript, PHP
Technologies: ReactJS, Angular, VueJS, Django, Laravel, Express, MySQL, MongoDB, NodeJS, jQuery, Bootstrap, Tailwind CSS, Git, Bash, Unix

WORK EXPERIENCE

Web Developer Intern **May 2019 – Aug. 2020**
Sonata Record ***Kaohsiung, Taiwan***

- Created a custom web application using JavaScript and HTML/CSS
- Maintained the website by keeping content updated and adding new features

PROJECTS

Scheduling System

- Created a web application using Express, HTML/CSS and SQL for professors and students to schedule TA help sessions based on enrolled courses
- Designed database to perform necessary SQL queries

Spotify Music Classification

- Used PCA and k-means to cluster Spotify tracks into different playlists with pandas and scikit-learn
- Applied KNN on new tracks to automatically add them to the correct playlist

Task Tracker

- Developed a to-do list app to keep track of tasks using Python and Django
- Supports adding, deleting, and marking tasks as complete.

Audio Visualizer

- Designed and built an app using ReactJS and the Web Audio API to visualize microphone audio
- Includes various visualization styles and controls to customize the experience

Patient Queue

- Simulated a hospital patient management system by implementing a queue system with Java
- Considered urgency levels and emergencies to promote patients to higher priorities

Movie Ratings Grouping

- Applied SVD on a matrix of user vs movie ratings using pandas, NumPy, and scikit-learn
- Plotted the transformed matrix and clusters using k-means clustering