Matthew Li

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EDUCATION

Purdue University   **Aug. 2018 - May 2022**
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

SKILLS

Languages: Java, Python, C/C++, JavaScript, HTML/CSS, SASS, SQL, Ruby, Go, R, SAS
Technologies: MySQL, Git, Rails, ReactJS, MongoDB, Neo4j, NodeJS, jQuery, Bootstrap, NumPy, Pandas, Scikit-Learn, SciPy, Bash, Unix

WORK EXPERIENCE

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

- Created a custom web application using JavaScript and HTML5/CSS3
- Maintained the website by keeping content updated and adding new features

PROJECTS

Scheduling System

- Created a web application using Express.js, 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

Music Website

- Designed and built a website using ReactJS and JavaScript to share my music beats

Patient Queue

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

Military Expenditure Data Analysis

- Used R to perform analyses on data of yearly military expenditure
- Applied ANOVA and correlation tests to test hypotheses

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