Yunzhong Li

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EDUCATION

University of Michigan - Ann Arbor   Expected: Apr. 2023
Master of Science in Electrical and Computer Engineering   **GPA: 4.0/4.0**
Related Courses: Database App Design, Data Structures & Algorithms, Object Oriented Design, Web Design
Beijing University of Posts and Telecommunications   Bachelor of Electronic Information Engineering   2020

TECHNICAL SKILLS

Language: Java, Python, C++, SQL, JavaScript, VHDL, Assembly Language

DB System: SQLite, MySQL, PostgreSQL

Framework: Django, Flask, Spring Boot, React

Web Tech: HTML, CSS, JSON, HTTP, Bootstrap   **Tool:** NLP, Git , PyTorch

WORK EXPERIENCE

Software Development Intern   Juzhong Plastic Electronic Technology Co., LTD   May.2022 -Aug.2022
Developed a portal website & build a database system   Dongguan, China

- Designed six UI components using CSS and integrated them into web pages that built from scratch with **react**.
- Designed structurer of several tables and stored about 1000 records into it to better manage product and customer information utilizing MySQL

Product Testing Intern   Mixlinker Networks Inc.   Jan.2020 - Mar.2020
Test functionality of data collector & tablet computer   Shenzhen, China

- Developed an UI platform for functionality test of data collector with **react**.
- Wrote a python script to load data collector information automatedly into **MySQL** database, decreasing loading time by 80%
- Collaborated with product teams with computing controller development by doing meeting and with relevant personnel to ensure quality and timely delivery of 1200 sets data collector

PROJECTS

Movie Recommendation   Feb.2022 - May.2022
Developed a web application of movie information retrieval, recommendation, and key words visualization

- Called movie information retrieval **API** to search related movie title and to retrieve **JSON** data of detailed movie information, stored 5,000 records into **SQLite** and movie recommendation according to IMDb score
- Used **D3 JavaScript** library to implement **word cloud** about most common words of searched movie plot
- Applied **graph** structure to compute Kevin Bacon number of two designated actors
- Designed several web UI for better interaction effects with flask

Vehicle Detecting and Tracking   Jan.2022 - May.2022
Implement vehicle detecting and tracking using YOLOv3 and Kalman Filter

- Selected an appropriate dataset and adjust *YOLOv3 network* architecture for our object detection
- Designed loss function and twist parameters to train model using stochastic gradient descent
- Implemented a greedy algorithm and SORT tracker together with Kalman Filter loop to achieve above 90% precision of vehicle tracking

Voice Assistant System Based on AI   Mar.2020 - Jun.2020
Built a system to realize voice input on mobile phone and command control on computer end

- Developed a mobile APP under Android Studio with a user interface UI, voice order input, **iFLYTEK voice dictation SDK** to convert voice to text data, packaging and transmitting text command to computer end under LAN
- Used Eclipse to develop program of computer end achieving receiving text data, searched and played local video or opened the default browser to search corresponding content according to text data
- Applied **MVC** principle to design the architecture of the whole program