Weiyan Hu

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West Lafayette, Indiana
Please Email me first if you want to contact me. Thank you!

Education

Purdue University, West Lafayette   2018.05 - 2022.05

Computer Science Bachelor of Science   West Lafayette, Indiana

- Major GPA: 3.9/4.0 Cumulative GPA: 3.88/4.0 Dean's Honor list 2018-2021
- Related courses: Operating System, Computer Network, Information System, Object-Oriented Programming, Data Structure and Algorithm

Skill

- Understand MySQL, able to write basic SQL statements, understand SQL injection and indexing
- Know Android data storage technology (sqlite, shared_preference)
- Understand and be able to apply common data structures
- Good java foundation, understanding of object-oriented features and the use of common libraries
- Understand the principle of computer network and Operating System

Work Experience

China Mobile International   2021.05 - 2021.08

Intern ICT Department   San Jose, California

- Responsible for data management and integration, stored the company's transaction data with 18 partners and suppliers in the past year, responsible for putting data into the MySQL database and indexing, ensuring the accuracy of data records and speeding up the search for target data
- Participated in the investigation of the company background and cooperation opportunities of about 10 potential network suppliers, and actively communicated with them through emails to obtain detailed cooperation process and product information.
- Used Python to write code to detect the consistency of existing supplier data and our data, and automatically generate reports of unmatched data, with an accuracy rate of 95%.

Project

Cool Weather(Android)   2021.08 - 2021.08

Cool Weather can list all provinces, cities, and counties in the country and can view the weather information of any county in the country.

- Used OkHttp to make a network request framework, connect to the interface of the "Hefeng Weather" web page, and obtained weather information corresponding to each province, city, and county.
- Obtained the JSON data through GSON annotation, stored the corresponding data in the java class, and puts the parsed data into the corresponding user interface.
- Established LitePal database to cache the obtained information, thereby improving the speed of finding cities and corresponding counties.

Python Simulator(Python, HTML)   2021.04 - 2021.05

Created a stock simulation software that can randomly generate stocks, and allows users to create accounts, recharge and freely buy and sell stocks.

- Automatically generated 1000 stock names and their prices, created corresponding database tables and indexes, and store all stocks in the database.
- Responsible for the implementation of the background code, including login and logout, trading and changing stock prices, and searching for stocks based on stock content or price.
- Used HTML, CSS to complete simple web designs, generated various stock trend charts for users to better compare and analyze.

School Research

Computer Vision Bias   2020.05 - 2020.09

Explore the bias of the face data set, and try to reduce the bias of the data set and improve the completeness of dataset

- Used the LIME model to explain the judgment conditions of the face recognition algorithm, it is found that the algorithm is more focused on recognizing the depth of the face skin color, which leads to a reduction in the accuracy of the biased algorithm in identifying specific groups of people.

- Utilized the StyleGAN2 model, and by modifying the internal latent vector, generate photos of various types of faces, put these generated photos into a biased data set, and achieve results that improve the accuracy of computer vision algorithms.