Steven Liu

UC San Diego

Data Science

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Websites:
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Skills

- Web Development in CSS, HTML, JavaScript and React
- Data Analysis and Data Frames in SQL, R, and Python
- Advanced Data Structures and Algorithms in C++, Python, and Java
- Principles and Theories of Data Science
- Web scraping, Data Granularity, Permutation Tests, Imputation
- Data Visualization, Wrangling, Analysis
- Statistical analysis, Predictive Modeling, Machine Learning Models
- Python Packages: BeauitfulSoup, Scikit, Sklearn, Seaborn, Matplotlib, NumPy, Regex, Pandas

Education

University of California, San Diego / Data Science B.S.
2018-2021, La Jolla (Attending)

Extracurricular

UC San Diego Triton^3 Electronics/Software Team:
Custom PCB design using Altium Designer 19, the industry's choice on PCB design software.
Coding on the PIC24 architecture using MPLAB.

Projects

Sudoku Puzzle: (C++)

Allows the player to select from 4 difficulties, records the scores from each playthrough, calculates and shows the player some statistics once the puzzle is solved.

Yelp Restaurant Maps: (Python)

Gives a map of restaurants that contains where the restaurant is located and the reviews, containing a variety of data.

Ants vs Bees: (Python)

Inspired by the game 'Plants vs Zombies'. Allows you to create your own ants.

Huffman Tree Codec: (Java)

Converts ASCII characters into bits, and bits into ASCII characters through a Huffman Tree.

Spell Checker: (Java)

Checks the input if it matches or resembles any word in the dictionary.

CRISPR: (Java)

Alter DNA sequences and modify gene functions.

Machine Learning Models: (Python)

Can be found on github and my portfolio website.

Global Dashboard: (JavaScript)

Map chart that shows some statistics and plots of each country when clicked.

ESP32 Device Analysis: (Python, SQL, JavaScript, C)

Fully implemented from scratch. Used ESP32 Device to detect temperature and humidity and performed some analysis to make some types of conclusions about the data.