Johnson Hsiung

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EDUCATION

San Jose State University Aug 2018 – May 2022
Cumulative GPA of 3.87/4.00
B.S. Computer Science

EXPERIENCE

Gridware Dec 2023 – Present
Data Analyst
- Analyze real-time grid data, identifying faults, potential wildfires, outages, and other hazards while training new analysts.
- Increase accuracy of product weather metrics **by 30%** with Python, data science techniques, and communication with customer representative.
- Explore wildfire simulation software to lay the groundwork for quantifying product impact on reducing wildfire costs.

Stanford Linear Accelerator Center Jun 2021 – Aug 2022
Software Engineer Intern
- Utilized GridLAB-D electric grid simulation API with Python in Docker environment to simulate California electrical tariff charges of electrical grid networks while generating six visualizations for each meter with MatplotLib.
- Pipelined usage of electrical tariff simulation through shell script, **speeding setup by 80%.**
- Learned Python with pandas library to implement a data cleaner for GridLAB-D pipeline.
- Identified 3 bugs causing failures in GridLAB-D and presented solutions, **resulting in bug fixes within the day.**
- Presented findings and accomplishments in a 10 minute presentation to 50 other interns and mentors along with a final research report submitted to the Department of Energy.

SJSU College of Science Jan 2020 – May 2022
Java and Data Structures Lab Instructor
- Led class of 30 college students, lecturing on object-oriented concepts, reviewing exams, providing guidance through lab work and homework, and assessed overall progression of students with weekly reports and exit interviews.
- **100% of students** reported that the instructor was well prepared, was sensitive to each student's comprehension level, and explained the material clearly.

PROJECTS

Jehoot Jan 2022 – May 2022
- Designed and implemented a multi-player game themed around Kahoot and Jeopardy.
- Utilized Python with Flask to create APIs for frontend and PyMongo for backend along with Javascript for frontend while creating test conditions with Postman.

Travel Tracker Sep 2021 – Dec 2021
- Employed agile methodologies with two other group members to design and implement an airline ticket tracking website, allowing users to see predictions of future ticket prices based on historical data.
- Learned and applied AWS Amplify, Javascript with React, Python, and GraphQL to store user information, access Amadeus flight information API, and display price graphs in an Agile environment.

Group Clinical Information System Project March 2020 - June 2020
- Designed and implemented a clinical information system to keep track of patients and their symptoms.
- Analyzed class architecture using use case, class, state, and sequence diagrams.
- Incorporated MVC pattern in Java and used Java Swing to implement the UI.

SKILLS

Programming Languages: Java, Python, HTML, CSS, JavaScript, SQL, C, C++, GraphQL
Methods/Tools: Object Oriented Design Principles, JUnit, Java Swing, PyMongo, Flask, Git, React, MySQL, AWS, Postman, Git, Agile, Windows, MacOS, Linux