Jerry Su

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EDUCATION

Stony Brook University, Stony Brook, NY Sept 2019 - May 2023
Bachelor of Engineering in Computer Engineering GPA: 3.43 / 4.0

Relevant Coursework
Advanced Programming and Data Structures, Object-Oriented Programming, Android Programming, Mobile Cloud Computing, Network Security, Programming Fundamentals, Machine Learning, Operating Systems, Embedded Systems I & II, Computer Architecture

PROJECTS

DataVision with Newark/New York Real-Time Datasets | *Java, REST API, Excel, Git* *Sept 2022 – Present*
- Deployed a real-time program to read 100+ datasets with over 30 million datapoints from New York and Newark
- Maintained the code to continually use up to date API and improved the speed of program by over 250%
- Customized a hypothesis testing routine with 2 group members in weekly meetings to evaluate bias factors contributing to the dataset
- Implemented function for data table to excel file conversion for easy access and data maintenance

Microcontroller Circuit with AVR128DB48 | *C, Assembly* *Aug 2021 – May 2022*
- Designed a circuit to display a LED device with memory in 20+ laboratory experiments and 2 projects
- Implemented a new program so the circuit is interrupt based, and the LED display may change up to 1000 times a second
- Remodeled the circuit to allow for new electronic devices and increasing efficiency by 35%
- Troubleshooted the code through simulation cutting code length by nearly 40% and memory usage by 20%

Live NASA API Asteroid Tracking | *Java, REST API* *April 2021 – May 2021*
- Developed an API based program to retrieve the data of 100+ asteroids including names, magnitude, diameter, danger levels, and orbiting planet
- Optimized the code to run smoothly and allow for search of specific asteroids by ID over 15+ pages
- Re-engineered to include comparator functions to sort the retrieved data from NASA's RESTful API in a well-organized table

Interactive Library Account Management | *C++* *Nov 2020 – Dec 2020*
- Mediated a weekly meeting with 4 group members to discuss new proposals and points of improvement
- Revamped into a non-volatile program that is memory efficient and can store over 100 accounts and books
- Modified the code to provide a more appealing and interactive user experience
- Transformed the program to include 2 more features which are time-based penalty systems and administrator accounts

ACHIEVEMENTS

J.P. Morgan Chase Virtual Software Engineer Internship | Python *July 2022*
Participated in the open access J.P. Morgan Chase Virtual Experience Program with Forage
- Refined a program to monitor stock prices and display them neatly on a chart with indicators such as a buy or sell signal within a range with over 95% success rate

EXTRACURRICULAR EXPERIENCE

Asian Student Alliance Stony Brook, New York
Junior Representative and Secretary Assistant *Sept 2021 – Present*
- Collaborated with undergraduate student government to deliver 10+ university events every year
- Guided 15+ new club members to become comfortable and efficient working within a new team environment

TECHNICAL SKILLS

Software: Java | C++ | C | Python | Javascript | C# | VHDL | Assembly | Excel
Frameworks: Node.js | React