JERRY SU

 LinkedIn | +1 646-209-3865 | jerrysucode.com | jerrysu.nyc@gmail.com | GitHub

Education

Bachelor of Engineering   **Stony Brook University**   *GPA: 3.48*   **09/2019 - 05/2023**

- Major in Computer Engineering   *Stony Brook, NY*

Relevant Coursework

- Advanced Programming and Data Structures **|** Object-Oriented Programming **|** Android Programming **|** Mobile Cloud Computing **|** Network Security **|** Programming Fundamentals **|** Intro to Machine Learning **|** Operating Systems **|** Embedded Systems I & II **|** Computer Architecture

Experience

Software Engineer   **General Motors**   *Warren, MI, USA*   **06/2023 - Current**

- Designed a script using Python and Selenium contributing to $1 billion+ in revenue every year by efficiently search through 5000+ VINs for specific qualities, driving an unprecedented speed improvement of 1000% when compared to the previous manual method.
- Optimized the sharing of data with 20+ partnered dealerships by dissecting company-wide accessory related warranty reports and tailoring over 100+ reports each month empowering partners to accurately and swiftly correct any errors.
- Spearheaded a foundational concept for an illuminated wheelcap to be dependent on smartphones instead of the car module, reducing development time by roughly 40% and creating an extremely user-friendly and interactive space.
- Integrated team with new tools like automation to improve development, reduce wait-time by roughly 30%, and improve quality by 15%
- Mentored an intern for 2.5 months through exemplary communication and guidance increasing productivity by 33%

Projects

Personal Website   jerrysucode.com   *JavaScript/HTML/CSS*

- Demonstrated the ability to rapidly acquire new skills and knowledge, producing a fully functional website within 1 month.
- Enhanced website accessibility by making website compatible with mobile devices and many different browsers expanding potential audience by nearly 42%.
- Elevated user engagement with website by roughly 28% through strategic integration of specific frameworks and libraries (animate.css, bootstrap, font-awesome, jQuery, wowjs, etc.) to enhance user interface.
- Self-learned many technologies with 0 prior knowledge, reaching a commendable level of expertise in areas such as JavaScript, HTML, CSS, frameworks, libraries, and other tools.

DataVision   *Java, RestAPI, Android Studio*

- Deployed a real-time program to read over 30+ million datapoints from New York and Newark for data analysis, facilitated a weekly hypothesis testing routine with 2 other members to evaluate the 100+ factors that can contribute to the bias of the dataset
- Customized a prediction algorithm for giving the average time within an 87% success rate for a service request to be finished in Newark.
- Maintained the code within the year to continuously give accurate results by updating API with new datasets and increase the speed Of the program by roughly 250%.
- Implemented a function to easily translate the data gathered into excel sheets for easy access and data maintenance.

Microchip Programming with AVR128DB48   *C, Assembly*

- Achieved a 35% efficiency upgrade by improving the program to be interrupt-based and allowing display to update 1000+ per second.
- Troubleshooted code through simulations cutting code by 35% and decreasing memory by 20% all while retaining core functionality.

Interactive Account Manager   *C++*

- Led a collaborative weekly meeting with 3 members fostering ideas to continuously improve the program into a non-volatile, memory solution capable of storing 100+ accounts and 500+ books while creating a more appealing user interface.
- Transformed the program's functionality by including 2 new pivotal features: time-based penalty systems and administrator accounts.

Skills

- Java | Python | C++ | C | JavaScript | HTML | CSS | C# | VHDL | Assembly | Excel | Canva | Figma
- Bootstrap | Animate | Git | Selenium | RestAPI | React | Node.js | Firebase
- Backend | Frontend | Android Dev | Web Dev | Microcontrollers | Full-Stack

Leadership Experience

- **Campus Club:** Interviewed, on-boarded, and guided 15+ members every semester into a collaborative team setting
- . **Teacher Assistant:** Provided personalized support to 20+ students addressing individuals and ensuring comprehension of course material

Achievements

- **J.P. Morgan Virtual Software Engineer Internship**(with Forage): Completed virtual internship and awarded certificate **(Python)**