Sherry Zhang

❖ sbz5250@psu.edu   ❖ (518)-322-8434   ❖ San Jose, CA   ❖ LinkedIn

EDUCATION

Pennsylvania State University   **State College, PA**
B.S. Computer Science   May 2025
Minor in Mathematics

- <u>GPA</u>: 3.78/4.00   (Dean's List for 4 semesters)
- <u>Relevant Courses</u>: Data Structures and Algorithms, Systems Programming in C, Web Development, Blockchain, Object Oriented Programming with Web-Based Applications in Java, Data Structures in Python
- <u>Organizations</u>: IEEE Eta Kappa Nu Honor Society, Penn State Women in Engineering Program, Association for Women in Computing, Association for Computing Machinery

SKILLS

- **Languages:** Python, C, JavaScript, HTML, CSS, Java
- **Frameworks/Libraries:** Bootstrap, Flask, React, Node, Express
- **Tools:** Git/GitHub, VSCode

PROJECTS

Personal Website: zsherry168.github.io   (Built with React and Bootstrap)
GitHub: https://github.com/zsherry168

mdadm Library for Linear Devices   **Jan 2023 - Apr 2023**

- Coded a library in C for the mdadm (Multiple Disk and Device Management) utility in Linux that creates, manages, and monitors a linear device, which simply concatenates multiple physical disks into a single logical device
- Wrote functionalities that allowed mdadm users to read and write across multiple disks and blocks within the device
- Introduced caching to improve latency and performance by ~ 20% and networking to connect to remote servers

ChitChat   **Mar 2023 - Mar 2023**

- Developed a simple online chat application using Flask, Socket.IO, Bootstrap, Python, JavaScript, HTML, and CSS
- Delivered real time bi-directional communication between multiple users through the use of sockets
- Utilized cookies to save and remember conversations when users enter or switch into a channel

Nittany Reads   **Feb 2023 - Apr 2023**

- Built a book review website using Flask that allows users to create an account to search for books and leave reviews
- Programmed the application using Python, SQL, HTML, CSS and utilized SQLAlchemy, PostgreSQL, and Bootstrap
- Implemented a /api/<isbn> route that uses the Google Books API to produce a JSON object containing book details

EXPERIENCE

Data Structures Course Grader   **Jan 2023 - Present**
Penn State Department of Computer Science and Engineering   State College, PA

- Graded weekly assignments (homework and labs) of 60 students out of 750 for CMPSC 132: Data Structures
- Reviewed students' Python code and provided over 200+ suggestions to improve code readability and runtime
- Debugged programs that failed to pass more than 50% of doctests and identified reliable solutions to fixing the bugs

Research Assistant   **Sep 2022 - Jan 2023**
THRED Group   State College, PA

- Analyzed the communication patterns between experts in non-destructive evaluation and additive manufacturing to see if their collaboration on a part will increase the part's inspectability later on in the engineering design process

Academic Tutor   **May 2022 – Aug 2022**
Self-Employed   San Jose, CA

- Taught mathematics for over 25 hours total and allocated approximately 15 hours in preparing material for class
- Improved student's final test score in precalculus by one letter grade or around 15%
- Developed 5 comprehensive lesson plans and a curriculum following the Advanced Placement format for Calculus AB

LEADERSHIP

Community Outreach Coordinator (Eta Kappa Nu)   **Apr 2023 - Present**
Mentor (Women in Engineering Program)   **Mar 2023 - Present**