

Sherry Zhang

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EDUCATION

Pennsylvania State University

B.S. Computer Science

Minor in Mathematics

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

State College, PA

May 2025

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