# Sherry Zhang

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## EDUCATION

**The Pennsylvania State University**                                    University Park, PA
**B.S. Computer Science, Minor in Mathematics**                          Expected: May 2025
- GPA: 3.8/4.0  (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: Eta Kappa Nu Engineering Honor Society, Penn State Women in Engineering Program

## SKILLS

- **Languages:** Python, C, C++, JavaScript, HTML, CSS
- **Libraries/Frameworks**: Bootstrap, Flask, React, Node
- **Technologies:** Git, Visual Studio Code, PyCharm, Xcode

## EXPERIENCE

**Teaching Assistant**                                                    **Jun 2023 - Present**
Penn State Department of Computer Science                                 University Park, PA
- Provide virtual support outside the classroom for 40+ students in an introductory Python programming course
- Hold office hours 4 times a week to address concerns, provide assistance, and offer guidance for coding assignments
- Collaborate with a team of 4 teaching assistants and the professor to enhance and maintain teaching methodologies

**Grader**                                                               **Jan 2023 - Present**
Penn State Department of Computer Science                                 University Park, PA
- Evaluate and graded 30+ Python coding assignments for students in an introductory data structures course
- Debug and give detailed feedback to 60+ students weekly, improving their understanding of programming concepts
- Maintain a 95% grading accuracy rate and deliver consistent evaluation while regularly meeting deadlines

**Research Assistant**                                                    **Sep 2022 - Dec 2022**
THRED Group                                                              University Park, PA
- Analyzed communication patterns between experts in non-destructive evaluation and in additive manufacturing to observe if their collaboration will increase a part's inspectability later in the engineering design process
- Dedicated 5 hours weekly to assist in data collection, conduct interviews, and make familiar with qualitative research

**Academic Tutor**                                                       **May 2022 - Aug 2022**
- Delivered a total of 25+ hours of quality one-on-one tutoring in trigonometry, precalculus, and calculus
- Helped student boost their math grade by 13%, an improvement of one letter grade, and better exam scores

## PROJECTS

**Personal Website:** [zsherry168.github.io](#)  (Built with HTML, CSS, JavaScript, React, and Bootstrap)
**GitHub:** [https://github.com/zsherry168](https://github.com/zsherry168)
**mdadm Library for Linear Devices**
- Coded a library for the mdadm (Multiple Disk and Device Management) utility in Linux that creates, manages, and monitors a linear device, which concatenates multiple physical disks into a single logical device
- Programmed functionalities for reading and writing across disks, caching, and networking to connect to other servers
- Built using C, Linux, and UTM emulator/virtual machine
**Nittany Reads**
- Designed a book review application that allows users to create an account, log in, search for books, and leave reviews
- Managed a database, developed both the front end and back end, and utilized an API to retrieve book information
- Built using Python, SQL, HTML, CSS, Flask, PostgreSQL, SQLAlchemy, Bootstrap, and Google Books API
**ChitChat**
- Developed an online chat application that delivers real-time bi-directional communication between multiple users
- Built using Python, JavaScript, HTML, CSS, Flask, SocketIO, and Bootstrap

## LEADERSHIP

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