

# Sherry Zhang

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## EDUCATION

### Pennsylvania State University

B.S. Computer Science, Minor in Mathematics

State College, PA

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, Association for Women in Computing, Association for Computing Machinery

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## SKILLS

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

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## EXPERIENCES

### Teaching Assistant

Jun 2023 - Present

Penn State Department of Computer Science and Engineering

State College, PA

- Provide office hours 4 times a week to help students on Python coding assignments, including homework and labs
- Improve students' knowledge on basic programming concepts, such as conditionals, functions, and data types

### Computer Science Grader

Jan 2023 - Present

Penn State Department of Computer Science and Engineering

State College, PA

- Grade weekly homework and labs of 60 students out of 750 for the course Data Structures
- Review students' Python code and provided over 200+ suggestions to improve code readability and runtime
- Debug programs that failed to pass more than 50% of doctests and identify reliable solutions to fixing the bugs

### Research Assistant

Sept 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

- Tutored Precalculus, Trigonometry, and Calculus for a total of 20+ hours
- Assisted students with homework and exam preparation and provided them with supplementary assignments
- Developed 5 comprehensive lesson plans and a curriculum following the Advanced Placement format for Calculus

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## PROJECTS

**Personal Website**: [zsherry168.github.io](https://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

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## LEADERSHIP ROLES

**Community Outreach Coordinator** (Eta Kappa Nu Engineering Honor Society)

Apr 2023 - Present

**Mentor** (Women in Engineering Program)

Mar 2023 - Present