

# Sherry Zhang

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

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## EDUCATION

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### Pennsylvania State University

B.S. in Computer Science

Minor in Mathematics

May 2025

State College, PA

- **Cumulative GPA:** 3.8/4.0, Dean's List for 3 semesters
- **Organizations:** Eta Kappa Nu, Association for Computing Machinery, Association for Women in Computing, Society of Asian Scientists & Engineers, Women in Engineering Program
- **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

## SKILLS

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

## PROJECTS

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**Personal Website:** <https://zsherry168.github.io>

**GitHub:** <https://github.com/zsherry168>

**ChitChat** (Mar 2023)

- Developed an online chat application using Flask, Socket.IO, Python, JavaScript, HTML, and CSS
- Delivered bi-directional communication between users and utilized cookies to save and remember conversations

**Nittany Reads** (Feb 2023 - Apr 2023)

- Built a book review website using the Flask web framework
- Programmed the application using Python, SQL, HTML, CSS and utilized SQLAlchemy, Bootstrap, and PostgreSQL
- Implemented a `/api/<isbn>` route that uses the Google Books API to produce a JSON object containing book details

**Course Scheduler** (Dec 2022)

- Configured a database keeping track of student records using Apache Derby and managed the database using SQL
- Coded the course scheduler functionalities using Java
- Designed a user-friendly GUI interface that directly connects to the database

## EXPERIENCE

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### Data Structures Course Grader

Jan 2023 - Present

Penn State Department of Computer Science and Engineering

State College, PA

- Graded weekly assignments (homework, labs, recitations) of 60 students out of 750 for CMPSC 132: Data Structures
- Reviewed students' Python code and provided reliable suggestions to improve code effectiveness, readability, and runtime
- Debugged programs that failed to pass the doctest and provided successful solutions to fixing the bugs

### Undergraduate 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

### Maker Ambassador

Jan 2022 - Oct 2022

Bernard M. Gordon Learning Factory at Penn State

State College, PA

- Worked with 15 other ambassadors to host BUILD Nights—monthly events that occur 3-4 times a semester inviting students to construct fun interactive projects and develop new skills, such as laser-cutting and soldering
- Advertised and promoted 5 BUILD Nights actively via social media and tabling
- Prototyped and communicated issues for 3 previous BUILD projects

### Math Tutor

May 2022 - Aug 2022

Self-employed

San Jose, CA

- Taught mathematics for over 20 hours total and allocated approximately 15 hours in preparing material for class
- Improved student's final test score in precalculus by two letter grades or around 25%
- Developed 5 comprehensive lesson plans and a curriculum following the Advanced Placement guideline for Calculus AB