

# Sherry Zhang

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## EDUCATION

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### The Pennsylvania State University

Bachelor of Science in Computer Science

Minor in Mathematics and Cybersecurity Computational Foundations

Aug 2021 - May 2025

State College, PA

- **Cumulative GPA:** 3.84/4.0, Dean's List for 3 semesters
- **Organizations:** Association for Computing Machinery, Association for Women in Computing, Society of Asian Scientists & Engineers
- **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, Java
- **Tools/Applications:** Git/GitHub, Node, Express, React, VSCode, NetBeans, Fusion360

## PROJECTS

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### Pybot (In progress)

- Creating a chatbox for Discord servers using Python

### Personal Website (In progress)

- Developing an online personal portfolio using HTML, CSS, and Javascript

### 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

### Library Catalog (Dec 2021)

- Opened and read 1 text file with over 450 lines, created a database to track 10 library books, kept record of over 20 customers that borrowed and returned books, and calculated fines and holds for late returns
- Utilized primarily the array and list data structures

## 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