Sherry Zhang

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EDUCATION

Pennsylvania State University **May 2025**
B.S. in Computer Science State College, PA
Minor in Mathematics
- **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

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

PROJECTS

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

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