

Min-Xuan (Michelle) Jyi

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EDUCATION

Purdue University

Bachelor of Science in Computer Science & Bachelor of Science in Mathematics

- GPA: 4.0
- Dean's List & Semester Honors

West Lafayette, IN

Aug. 2023 – May 2026

EXPERIENCE

Teacher Assistant, Foundations of Computer Science

Purdue University

Aug. 2024 – Dec. 2024

West Lafayette, IN

- Designs challenging homework problems in LaTeX for over 250 students biweekly
- Hosts weekly problem solving sessions for 20 students, enhancing their understanding of complex topics
- Holds office hours to provide personal assistance and addresses students' questions with homeworks and general concepts
- Designs rubrics and grades homework assignments, ensuring fairness and understanding of key concepts

ESL Tutor | Volunteer

New Taipei International Youth Technical Leader Group

Oct. 2021 – May 2023

Virtual

- Developed fun and creative lesson plans for ESL students to gain global perspectives and prepare to live abroad
- Created a safe and welcoming environment for students learn and grow
- Worked with students on a personal basis to ensure the students are supported in their learning journey
- Encouraged students to participate in discussions

PROJECTS

Undergraduate Data Science Researcher

Wireshark, R, Telemetry, Cybersecurity, Machine Learning

Aug. 2024 – May 2025

The Data Mine – Purdue University

- Collaborated with L3Harris on Satellite Cybersecurity Detection using Telemetry
- Utilized Agile framework to facilitate working in a group of 10 students
- Used Wireshark to detect malicious activities over a network

Chat Application

Java AWT, Swing

Nov. 2023 – Dec. 2023

- Developed a chat application using Java and both AWT and Swing as the frontend
- Collaborated in a team of 4, taking the lead in troubleshooting and debugging code
- Implemented account creations and logins, verifying correct information and no duplicates usernames
- Handled user-cancelled operations and edge cases in server-client communication
- Resolved issue with blocking users by ensuring real-time updates
- Designed interface for displaying a large amount of messages between two users
- Implemented features to edit and delete messages to display properly for both users

Google Extension Game

Agile Development (Scrum), Javascript, HTML, CSS, Google Extension API

Feb. 2023 – Jun. 2023

- Developed a Google Extension using Javascript as the backend
- Collaborated in a group of 4 using Agile Development (Scrum) as the framework for structuring the team and facilitating communication
- Performed DOM Analysis to extract text and other elements, capturing the positional coordinates and dimensions of individual words, images, and buttons
- Implemented both personal and global leaderboards that utilizes server-client communication to send and receive data to enhance user engagement
- Presented the product and discussed the potential changes and updates to the game

TECHNICAL SKILLS

Languages: Java, Javascript, HTML, CSS, C, R, LaTeX, Python

Developer Tools: GitHub, VS Code, Visual Studio, IntelliJ, Eclipse, Wireshark

Technologies : Google Extension API, Java AWT API, Java Swing API