

# SHENGYANG WU

✉ [wsywu5354@gmail.com](mailto:wsywu5354@gmail.com)

☎ (425)-445-7803

📍 Bellevue, WA

🌐 [LinkedIn](#)

🐙 [GitHub](#)

## EDUCATION

Bachelor of Science

*Computer Science and  
Data Science*

### Purdue University

📅 Expected Graduation: May 2024

📍 West Lafayette, IN

🎓 3.94/4.00

### Awards

Computer Science Honors

Dean's List since Spring 2021

### Concentrations

Machine Intelligence

Systems Programming

### Relevant Courses

Data Structures and Algorithms

Object Oriented Programming

Artificial Intelligence

Data Mining and Machine Learning

Statistical Theory/Inference

Computer Architecture

Operating System

## SKILLS

### Languages

Java, C/C++, JavaScript (Node, React, p5), HTML/CSS, Python, R, MySQL

### Tools

Git, GitHub, JUnit, Eclipse,  
Database, Unix/Linux

### Cloud-Based Technologies

AWS, GCP, Docker

### Soft Skills

Communication

Teamwork

Problem-Solving

Time Management

Adaptability

## PROFILE

Computer Science Research Assistant at Purdue University interested in software engineering and data analytics. Proficient background in software development, object-oriented programming (Java, C++), data processing (Python), systems programming (C/C++), data structures & algorithms, and cloud computing (AWS, GCP). Have a passion for technology and can tackle demanding challenges.

## WORK EXPERIENCE

### Research Assistant

#### Purdue University

📅 May 2022 - Current

📍 West Lafayette, IN

- Worked as a full-time researcher with Dr. Yi Gao from the Department of Aviation Technology during Purdue's 2022 Summer Undergraduate Research Fellowship (SURF) program. Built a research project using Python that could dynamically analyze airline passengers' Tweets, and the results were used to study and measure public opinions on popular airline companies.
- Currently continuing the position as a part-time research assistant. Responsible for tasks including web development/maintenance (Python, JavaScript) and data analysis (Python, R).

### Teaching Assistant

#### Purdue University

📅 January 2022 - August 2022

📍 West Lafayette, IN

- Undergraduate TA for Purdue's CS 240: Programming in C (Spring 2022), and CS 180: Problem Solving and Object-Oriented Programming (Summer 2022)
- Mentoring weekly lab sessions and holding personal office hours to assist students in homework assignments.

## PROJECTS

### Airline Tweets Model

#### Python, Natural Language Processing, Web Development

📅 May 2022 - Current

- A research project completed during Purdue's 2022 SURF Program. The research paper was submitted to the Transportation Research Board (TRB) and was approved to be presented during its 2023 Annual Meeting.
- Built and deployed a website using Python's Dash framework that live fetches and analyzes airline passengers' Tweets.
- Through sentiment and lexical analysis, this project aims to detect anomalies in public opinions and report them to airline companies.
- Hosted the website on Heroku and stored the backend data in a SQL relational database on GCP.

### Unix Shell

#### C/C++, Unix Programming

📅 March 2022 - April 2022

- Developed a fully functional Unix command-line interpreter in CS 252: Systems Programming.
- Combined functionalities from common Unix shells such as bash and csh.

### Discord Bot for Video Games

#### JavaScript, Node.js

📅 May 2021 - August 2021

- Developed a Discord bot using Node.js and Discord.js that could fetch video games data and output processed information to Discord text channel. Used as a gameplay assistant on my Discord server.