SHENGYANG WU

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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 to 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, Node, React

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 full-stack website using Node and React that can live fetch and analyze airline passengers' Tweets.
- Through sentiment and lexical analysis in Python, 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

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.