

Ashley Sah

linkedin.com/in/ashley-sah | (216)778-0636 | ashleysah@case.edu | github.com/ashisah

EDUCATION

Case Western Reserve University

Computer Science/B.S, Economics/B.A

GPA: 3.9, Deans High Honors

Relevant Coursework: Machine Learning, Statistics, Data Science, Software Engineering, Linear Algebra, Full-Stack Web Development, Econometrics, Calculus-Based Microeconomics, Data Structures and Algorithms

Technical Skills: Python, Tensorflow, MATLAB, High Performance Computing, JavaScript, React.js, R

Cleveland, OH

May 2025

WORK EXPERIENCE

Center for Computational Imaging and Personalized Diagnostics (CCIPD)

Undergraduate Research Assistant

Cleveland, OH

2021-Present

- Developing a Machine Learning model for predicting patient response to biologics for pediatric Crohn's Disease patients (**to help clinicians identify which patients should receive which treatments**) (MATLAB and Python)
 - Utilizing the imaging processing, feature extraction, and feature selection, and model training pipeline
 - Collaborating with physicians and data scientists to annotate data of over 60 patient images
- Made patient stratification more efficient and created data visualizations for feature analysis
- Trained two high school students in NiFTi image processing and feature extraction

Solar Durability and Lifetime Extension Center

Undergraduate Research Assistant

Cleveland, OH

2023-Present

- Developing a classification model to predict the flow of nitrogen in streams and soil to anticipate nitrogen runoff
 - Performing exploratory data analysis (EDA) and visualizing data in R to identify data trends
 - Utilizing high performance computing (HPC) clusters for data acquisition of 22000+ satellite images
 - Reviewing existing research literature to determine relevance to the ongoing project

Case Western Reserve University UTech Care Center

Student Technician

Cleveland, OH

2021-Present

- Assisting students, faculty, and staff members with an array of technical support matters including university-endorsed software and basic hardware diagnostics
- Managing the reception area, efficiently aiding users while maintaining a professional and inclusive environment

LEADERSHIP EXPERIENCE

Veale Institute of Entrepreneurship-Veale Snyder Fellows Program

Veale Snyder Fellow

Cleveland, OH

2022

- 1 of 13 students selected for the program in tech entrepreneurial education
- Completed coursework in tech management and creating and analyzing value propositions
- Studied abroad in Barcelona, San Francisco, and attended Consumer Electronics Show

Cancer Focused Summer Undergraduate Research

Undergraduate Research Scholar

Cleveland, OH

2021

- 1 of 50 students to receive funding to conduct summer research. Research focused on selection of radiomic features to develop a prediction model for treatment response to biologic therapy in pediatric Crohn's disease patients

PROJECTS

Tokenizer: (Java) Scans text and efficiently calculate word occurrences and co-location statistics for natural language processing or spelling correction using a HashTable

DataFest: (R, Python) Won best-in-show in Data Science Hackathon for analysis on a large dataset from the American Bar

CSUHackathon: (Python, Figma) Employed web-scraping and designed dashboard to visualize bottlenecks in Ohio's Sexual Assault Kit (SAKT) Tracking System. Won People's Choice Award.

ToDo List: (React.js) A task list that updates with priority and deadline.