Yusen Peng

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EDUCATION

The Ohio State University, Columbus, Ohio Overall GPA (4.00 scale): **4.00**

Honors B.S. Computer Science and Engineering with AI specialization, May 2026

TECHNICAL SKILLS

Front-end: HTML/CSS, JavaScript; React/React Native Back-end: Node.js, Python, Java; Express Database: MongoDB DA/AI/ML frameworks: scikit-learn, pandas, numpy, matplotlib/seaborn, statsmodels

INDUSTRY EXPERIENCE

National STEM Honor Society, Gloucester, Massachusetts (remote)

Web and Tech Intern (Web Application), May 2024 – Present; part-time

- Collaborate in developing, improving, testing, and maintaining the National STEM official website
- Write HTML and custom CSS/JS snippets within WordPress to create responsive web pages and fix bugs
- Attend both weekly tech department meetings and website redesign team meetings to report updates

Resilience, Inc, Tampa, Florida (remote)

Frontend Developer (Mobile Application), December 2023 – Present; part-time

- Collaborate in developing, testing a mobile app called AIMME with many tools to learn emotional intelligence
- Contribute over 60+ hours to accomplish 30+ tasks of implementing new features and fixing bugs
- Utilize **React Native** and multiple react hooks for frontend development: useState, useEffect, useRef, etc.
- Utilize Git for version control; Attend both weekly team meetings and team lead/manager one-on-one meetings

RESEARCH EXPERIENCE

The DATUM Lab @ The Ohio State University, Columbus, Ohio

Research Assistant (Machine Learning), January 2024 – Present; Advisor: Dr. John Paparrizos Mentor: Ryan DeMilt

- Collaborate in implementing, documenting, and testing a time series classification library called SIGNAL
- Read research papers extensively and make google slides for a total of 5+ time series classification algorithms
- Adapt the corresponding **sklearn/PyTorch** source code carefully and analyze it modularly for each classifier
- Utilize Git for version control; Attend weekly team meetings and office hours to report updates and fix bugs

The Ohio State University, Columbus, Ohio

Research Assistant (Data Analytics), September 2023 – April 2024; Advisor: Dr. Kelsea Best

- Analyzed natural disaster and public housing datasets from exploratory, correlation, and regression perspectives
- Integrated Python with **pandas**, **matplotlib**, **seaborn**, **statsmodels** to generate a total of 40+ figures
- Utilized Git for version control; Attend weekly Zoom meetings to report updates and contribute new ideas
- Contributed as <u>a co-author of a conference publication</u>: "Assessing the equity implications of flood risk to public housing across the United States" at 2024 The Society for Risk Analysis Annual Meeting

The Ohio State University, Columbus, Ohio

Research Assistant (Computer System), May 2023 – August 2023; Advisor: Dr. Suren Byna

- Developed benchmarks to compare file I/O performance with CSV, HDF5, netCDF4, and Zarr
- Processed and visualized timing data with csv files and plots using Python, pandas, numPy, matplotlib
- Designed 20+ test cases on Linux and accomplished a research paper in LaTeX of 13 pages with 35+ figures
- Presented research posters at two annual research forums at The Ohio State University: 2024 Undergraduate Research Forum for Engineering and Architecture and 2024 CSE Graduate Student Visit Day

SOFTWARE PROJECTS

 Application Tracker | Node.js, Express.js, JavaScript, MongoDB
 https://github.com/Yusen-Peng/Application_Tracker

• Developed a full-stack web application to keep track of job applications with job titles, company, status, date, etc.

Weather App | React Native, JavaScript, OpenWeather API

https://github.com/Yusen-Peng/Weather App

• Developed a mobile application to fetch and show real-time user's geolocation and weather condition information