HANGXIAO ZHU

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EDUCATION

Washington University in St. Louis   **08/2022 - Present**
- Master of Science in Computer Science
- GPA: 3.90

The Ohio State University   **09/2019 - 05/2022**
- Bachelor of Science in Computer Science & Engineering
- Graduated with Latin honor: Magna Cum Laude
- GPA: 3.85

RESEARCH & INTERNSHIP

Washington University in St. Louis – Computer Science & Engineering Department
Position: Teaching Assistant in CSE 247: Data Structures and Algorithms   **09/2022 – Present**
- Assisted with course operations, including grading assignments and exams, facilitating classroom activities, and holding office hours sessions to help students with course content and assignments.

The Ohio State University - Bioinformatics and Mathematical Biosciences Lab

Position: Research Volunteer   **06/2022 – 08/2022**
- Assisted in testing scREAD database, RESEPT project. Participated in weekly group meetings and research discussions on Alzheimer's disease.

HP Tech Ventures

Position: Corporate Venture Capital and Business Analyst   **01/2021 – 03/2021**
- Collected startup data, used data cleaning methods and tools to calculate and analyze data, to determine which startups HP should pursue further investment due diligence.

A Study on Interpretable Deep Neural Networks for City Visual Perception Analysis Time
Position: Research Volunteer   **07/2020 - 09/2020**
- Interned in the research sponsored by The National Natural Science Foundation of China and the Director Foundation Project of National Engineering Laboratory for Public Safety Risk Perception and Control by the Big Data.
- Assisted in improving deep learning models, enhance the interpretability of deep neural networks, calibrating experiments results.

PROJECT & COURSEWORK

Neural Network & Machine Learning Projects   **01/2022 - 12/2022**
- Implemented multiple algorithms and models, including Perceptron Learning Algorithm, Backpropagation Algorithm, a Radio Basis Function network and Gaussian Basis Function, Stochastic Gradient Descent for Logistic Regression, Bagging Decision Trees and AdaBoost.
- Trained multiple models, including a Restricted Boltzmann Machine, Convolutional Neural Network structure.

"Core Language"   **08/2021 - 12/2021**
- Designed a new simple imperative programming language "Core Language" based on Java, which can take "Core language" text file as input and parse them into runnable instructions.

Fictitious Company Database Setup   **05/2021 - 07/2021**
- Worked in a 3-people group to set up a database for a fictitious company. Formulated the relational database architecture, entity relationship diagrams, SQL code, data, and other DB components.

A Monogame Remake of The Legend of Zelda   **01/2021 - 04/2021**
- Worked in a 5-people group to develop and refine the 2D game application A Monogame Remake of The Legend of Zelda in course CSE 3902.

COMPETITION

The Ohio State University 2021 Hack OHI/O   **11/2021**
- Challenged the problem raised by the Veeva Systems company: Build a web app that can take prescriber data for doctors to build out trending and targeting reports.
- Attempted to build an ideal predict model to predict future trends in medicine with several methods, including Linear Regression, K Nearest Neighbors, and Decision Tree.

The Ohio State University 2019 Hack OHI/O   **09/2021**
- Designed a software to crawl data, including time and location of OSU club activities, from the Student Organization Website of OSU, to help students select the club with the right time for students.
- Made use of Azure Machine Learning to design a machine learning model to recognize time and dates in various formats.

The 4th China College Students' "Internet+"
Innovation and Entrepreneurship competition: College-level Silver Award   02/2018 - 06/2018
- Worked as the team leader in the project "Standardization and Application of Ecological Farm Products based on Shuangma Ecological Farm". Responsible for designing a basic web page to display the agricultural products and other related sales information.

SKILLS

Programming Language
Java, Python, HTML, CSS, JavaScript, Swift, R
Other Tools
MySQL