

Yiyao Zhang

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About Me

Skills Python, SQL, R, C, Linux, Git, Jupyter Notebooks, Hive, Spark, AWS, MySQL, Oracle DB, Huggingface, OpenCV
Packages TensorFlow, Pandas, PyTorch, Numpy, Matplotlib, Scipy, dplyr, ggplot2, opencv
Related Course Relational Databases, Probability for Data Analytics, Algorithms, Mathematical Statistics, Linear Algebra, Differential Equations, Data Structures, Software Development and Design, Computer Architecture, Digital Logic

Internship Experience

Oracle Corporation

Configuration Analyst Intern

United States, May 2023 - September 2023

- Developed data-driven dashboard by integrating multiple data sources and applying mathematical model for analysis
- Designed and implemented a system automation tool to process complex datasets from extensive spreadsheets
- Conducted data analytics using SQL, identifying key trends and extracting insights from vast datasets
- Led data consolidation efforts, ensuring data consistency and integrity across various team repositories
- Collaborated closely with cross-functional teams to enhance data sharing and communication for efficient workflows

Alibaba Cloud, Alibaba Group Holding Limited

Operation and Maintenance Assistant Engineering

Hangzhou, China January 2021 – July 2021

- Developed a project management web platform and operational activity web interface using JavaScript
- Leveraged SQL to manage and analyze large sets of fault data, ensuring data integrity and optimized retrieval
- Conducted data-driven analysis on fault data which optimized emergency processes for Alibaba Cloud
- Collaborated cross-functionally with clients and technical teams for project alignment and let retrospective
- Created data visualizations and e-posters for data reports and operational activities using python and Adobe Suite

Extracurricular Activities

NeuroTechnology Team

The Ohio State University, 2023

- Processed electroencephalogram (EEG) data using filtering techniques, such as Independent Component Analysis and band-pass filters, using MATLAB and scipy to produce clean datasets

Underwater Robotics Team

The Ohio State University, 2022 - present

- Led computer vision initiatives for the RoboSub competition using OpenCV and TensorFlow's object detection API
- Implemented rotation invariant and multi-scale template matching to refine detection accuracy
- Conducted systematic performance tests, optimizing using advanced algorithms and techniques

Education

The Ohio State University

Columbus, OH, United States, 2021 – December 2023

- Bachelor of Arts and Sciences in Mathematics, Minor in Computer & Information Science

Leadership

Vice President of Cantonese Club

Columbus, OH, United States, 2021-Present

- Established club's overall objectives, organized fundraising events, and supported the work efforts of club members
- Led forty people in holding a Gourmet Celebration at OSU campus