

STANLEY ZHAO

sjz1005@gmail.com · 9513173089 · in/stanley-j-zhao

EDUCATION

University of California, Riverside

Computer Science MS Thesis Track 2023

- Thesis: "Chat log analysis in an online CS1 course"
- This study involves the usage of scraping data from class chat logs in order to predict student performance and automate participation detection.

Computer Science with Business Applications BS 2021

EMPLOYMENT

San Diego State University Department of Computer Science

Adjunct Lecturer

August 2023 - Present

- Lecturing computer architecture, artificial intelligence, and data structures/algorithms courses.
- Created AI programming labs in Python and JavaScript, with customized automated graders.
- As an undergraduate advisor, worked directly with students to plan class schedules and guide students to honors and Dean's List academic success.

National University Department of Computer Science

Part-time Faculty

January 2025 - Present

- Wrote a curriculum and instructed a web programming course on HTML5, CSS, and Javascript. The class centers on web design/e-business with a focus on social networks.
- Implemented an autograder and automatic participation tracker for an online course.

UCR Department of Computer Science & Engineering

Technical Lead Researcher

April 2021 - December 2022

- Creation and maintenance of Zoom Chat Analysis tool to identify early predictors of at-risk students. Tech lead for team of 4 researchers following an Agile SDLC pipeline.
- Maintenance and improvement of code plagiarism checker used by zyBooks online textbook.

zyBooks

Platform Development Intern

March 2022 - August 2022

- Implemented image hosting from internal server to AWS, added new functionalities for e-textbook plagiarism checking using Ruby and Python.
- Updated and maintained the integrity of e-textbooks on subjects including Python 3, C++, C#, SQL, MATLAB, Java, and discrete math.
- Worked directly with zyBooks founder Dr. Frank Vahid on analytics and performance research.

PROJECTS

Zoom Chat Analysis Python, Javascript, HTML/CSS- 2023 <https://stanleyjzhao.github.io/projects.html>

- Analyzes Zoom chat logs and outputs student performance statistics.
- Utilized Python for core functionalities and embedded Javascript for user interaction.
- Built all functionality and created a web browser interface used by 20+ different classes across 5 universities and colleges.

NBAanalytics Python, Docker, SQL - 2022

- Uses at database of 40 years of NBA player statistics to calculate and output the best players given specific user metrics using pandas and numpy.
- Created Docker launcher and embedded SQL search functions to scrape the database for specific player characteristics.

PUBLICATIONS

Vahid, F., Zhao, S. and Allen, J., 2022, August. Automated Zoom Chat Analysis Including Chat-Based Polls for an Online Introductory Programming Course. In 2022 ASEE Annual Conference & Exposition. Best of CoED Award

Vahid, F., Zhao, S. and Gordon, C., 2023, March. Ultra-Lightweight Early Prediction of At-Risk Students in CS1. In 2023 ACM SIGCSE Technical Symposium.

SKILLS

PROGRAMMING:

JavaScript, Python3, HTML/CSS, Kotlin, SQL, C++, C#

TECHNOLOGIES/Frameworks:

Git, Oracle, UNIX, PostgreSQL, AWS, .NET, React, MongoDB

LANGUAGES:

English, Mandarin Chinese (Fluent Speaking)