512-919-2604
Jackson.Zane@stanford.edu
http://www.jacksonzane.com

Jackson Zane Student

Education

Stanford University Stanford, CA

B.S. in Data Science; Minor in Mathematics 2023 - 2027

Highlighted Coursework: Probability Theory, Intro to Machine Learning, Data Structures, Real Analysis, Statistical Modeling of Sports

Research Experience

Housekeeping Genes' DNA Methylation Patterns in Breast and Endometrial Cancers

*Shuying Sun, **Jackson Zane***, Brandon Peng*, Juhi Pandit*, Alice Zhong**

Applied data preprocessing, regression modeling, and clustering to extract biologically and statistically meaningful features from breast cancer patient data 2025

Internships

AI Solutions Intern | PMZ Law Group 2025.06 - 2025.09

- Developed a custom LLM-based tool to streamline discovery document review, cutting manual processing time by 40% and enhancing accuracy through automated classification.
- Launched a full-stack website redesign using HTML, and JavaScript, and a headless CMS, boosting the firm's search visibility and cutting bounce rates by 25%.

Data Science Research Intern | Texas State University 2024.06 - 2024.08

- Modeled data pipelines in R to clean and process large genomic datasets, automating over 80% of preprocessing tasks
- Implemented statistical models using R packages (e.g., limma, edgeR) to analyze DNA methylation patterns across samples

Skills

Languages: Python, R, C++, Bash

Frameworks: PyTorch, Matplotlib, Unity, Git

Projects

Gear Prep Simulator (VR)

Created a VR experience in Unity (C#) where players configure soldier loadouts before simulated missions. Implementing a predictive AI module (logistic regression) to evaluate mission outcomes based on user equipment — combining simulation logic with data-driven modeling. 2025.03 – 2025.6

Groups

- **Kappa Sigma Fraternity** 2025
- **Central American Student Association** 2023
- **Muay Thai** 2025
- **Men's Rugby** 2023

Technical Summary

- Skilled in Python, R, and C++ for data modeling, statistical analysis, and automation. Strong foundation in AI, data science, and simulation-based problem solving.
- Built custom LLM-powered automation tools and VR systems integrating Unity C and AI logic.