KYLE ZHAO

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SUMMARY

Undergraduate data science student with a strong foundation in Python, SQL, and statistical analysis. Passionate about leveraging data-driven insights and machine learning to solve diverse real-world problems. Seeking to contribute to industry projects and expand technical expertise.

EDUCATION

University of California, San Diego **GPA: 3.94 / 4** **Sep 2024 - Expected June 2027**

- Pursuing a Bachelor's Degree in Data Science

Coursework

- Practice of Data Science; Data Structures & Algorithms for Data Science; Theoretical Foundations of Data Science I & II; Statistical Methods; Econometrics; Linear Algebra; Introduction to Data Management; Research Methods

TECHNICAL SKILLS

- **Programming & Data:** Python, SQL, data structures & algorithms, data management, relational databases (PostgreSQL)
- **Data Science & Machine Learning:** Supervised learning (linear & logistic regression, k-NN, decision trees, gradient boosting), model training & validation, bias-variance tradeoff, loss functions, feature engineering, dimensionality reduction, model evaluation
- **Statistics & Econometrics:** Probability distributions, sampling & reproducibility, hypothesis testing, confidence intervals, OLS regression, causal inference fundamentals
- **Data Analysis & Visualization:** Exploratory data analysis (EDA), data cleaning & preprocessing, missingness analysis, statistical visualization (Matplotlib)

EXPERIENCE

Data Science Intern, UniShack **June 2025 - Present**

- Worked on the data team to build the backend infrastructure that powers our listings platform.
- Deployed Python web scraping pipelines using Selenium to gather rental listings near colleges.
- Designed scraping logic to prioritize listings based on rental costs, catering to student needs.
- Cleaned and structured data for integration into a PostgreSQL database, enhancing accessibility for the web application.

Undergrad Research Assistant, Princeton University **June - Sep 2025**

- Investigated the dissociation behavior of an oxygen molecule on a niobium (Nb(110)) surface using density functional theory (DFT).
- Performed DFT simulations on a Windows machine via WSL (Ubuntu) using DFT packages.
- Analyzed simulation outputs to study energy profiles and dissociation pathways.
- Generated scientific figures to interpret results and identify key trends in adsorption.

LEADERSHIP & ACTIVITIES

Vice President, Photosynthesis: Community Garden **May 2025 - Present**

- Organized events and coordinated member engagement for the organization.

Event Planner and Safety Officer, UCSD Club Table Tennis Team **May 2025 - Present**

- Managed logistics and scheduled matches / events for competitive team play.