

Alex Dieter

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EDUCATION

University of California, Santa Barbara
Bachelor of Science in Statistics and Data Science

Expected Graduation: June 2026
Major GPA: 3.6

SKILLS

Technical Skills: Python, R, SAS, SQL, Pandas, ML, Excel, BigQuery, Google Cloud, Big Data, Typescript, JavaScript, AngularJS, AWS, Azure, HTML/CSS, C++, Microsoft Teams, PowerBi, Tableau, Data Visualization, Data Modeling

EXPERIENCE

Data Science Intern
Kaiser Permanente

June.2025 – Septemeber.2025
Los Angeles, CA

- * Conducted data analysis on pediatric surgical outcomes to identify trends and areas for improvement
- * Built and managed a Power BI dashboard comparing ACS NSQIP surgery data with outcomes from 10+ Kaiser Permanente SoCal hospitals
- * Collaborated with Surgical Clinical Reviewers (SCRs) to validate and interpret patient outcome data

Data Science / Software Developer Intern
Biju Inc (Hybrid)

Mar. 2024 – June.2025
Santa Rosa, CA

- * Participate in user testing and gathered real client feedback to refine application functionalities for better UX.
- * Contribute to the development of an application aimed at streamlining invoice management and communication for small business owners.
- * Assist in coding and debugging features related to invoicing, client communication, and data management.

Executive Board Member
Alpha Epsilon Pi (AEPi Fraternity)

Oct. 2023 – June-2024
University of California Santa Cruz, CA

- * Provided leadership and strategic direction for fraternity operations, including event planning, member recruitment, and community outreach.
- * Managed a budget to ensure financial stability and allocation of funds for various chapter activities and initiatives.

PROJECTS

Traffic Sign Classification (Neural Networks) | Python, TensorFlow

Dec. 2025

- * Built and trained a CNN to classify 43 traffic sign classes using the GTSRB dataset, achieving 99% validation accuracy.
- * Deployed the trained model as a live API and integrated it with an interactive web demo allowing real-time image classification
- * GitHub Repository: <https://github.com>

Comparing Regression Models for Housing Prices | Python, Machine Learning

Dec. 2025

- * Built a machine learning model to predict median housing prices using California census data.
- * Trained and compared multiple models including linear regression, decision trees, and random forests.
- * Tuned a Random Forest model to achieve an R^2 score of approximately 0.81 on test data.
- * GitHub Repository: <https://github.com>

Personal Portfolio Website | Angular, TypeScript, HTML/CSS

2024 – Present

- * Designed and built a personal portfolio website from scratch to showcase data science and software projects.
- * Used the site to present full data workflows, model results, and visual analyses in a clear and accessible format.
- * Live Website: <https://alexdieter.com>

NFL Home-Field Advantage | Python

Sept. 2024 – Oct. 2024

- * Analyzed NFL game data (1966–2023) to explore home-field advantage and its effect on team performance.
- * Used Python and libraries (Pandas, Matplotlib, NumPy) to run statistical analyses and create visual insights.
- * GitHub Repository: <https://github.com>

CERTIFICATES

Google Data Analytics Certificate (Coursera, 2024) — IBM Data Science Professional Certificate (Coursera, 2024)