

# 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)