Alex Dieter

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EDUCATION

University of California, Santa Barbara — Expected Graduation: June 2026
Bachelor of Science in Statistics and Data Science — *Major GPA: 3.6*

SKILLS

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

EXPERIENCE

Data Science Intern — June.2025 – Septemeber.2025
Kaiser Permanente — *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 — Mar. 2024 – June.2025
Biju Inc (Hybrid) — *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 — Oct. 2023 – June-2024
Alpha Epsilon Pi (AEPi Fraternity) — *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 $\tilde{}99\%$ 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

Property Price Predictor | *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)