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, AWS, Azure, HTML/CSS, C++, Go, Snowflake, Microsoft Teams, PowerBi, Tableau, Data Visualization,

CERTIFICATES

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

EXPERIENCE

Data Science Intern — Dec.2025 – Present
BlueAlpha AI — *Santa Barbara, CA*
* Built a cross-channel interaction analysis across 5–10 marketing channels to identify when channels reinforced or hurt each other.
* Quantified statistically significant interaction effects while accounting for multicollinearity and overlapping audiences to support more informed budget decisions.

Data Science Intern — June.2025 – Sept.2025
Kaiser Permanente — *Los Angeles, CA*
* Analyzed pediatric surgical outcomes across 10+ hospitals to identify performance trends and areas for improvement
* Built a Power BI dashboard comparing internal outcomes to ACS NSQIP benchmarks, making cross-hospital comparisons faster and clearer
* Presented and explained patient outcome analyses to senior Surgical Clinical Reviewers, translating complex data into clear, clinically meaningful insights

Data Science / SWE Intern — Mar. 2024 – June.2025
Biju Inc (Hybrid) — *Santa Rosa, CA*
* Collected, cleaned, and analyzed user and transaction data to identify patterns and issues affecting application performance.
* Worked with structured invoice and client communication data to support analysis and improvements to billing workflows.
* Assisted in building, validating, and debugging data pipelines and data-related features used for invoicing.

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 $\tilde{9}9\%$ 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