

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, MatLab, SciPy, Big Data, TypeScript, JavaScript, Scala, Julia, Data Analytics, Version Control, Git, Data Analysis
AngularJS, AWS, Azure, HTML/CSS, C++, Go, Snowflake, Microsoft Teams, PowerBi, Tableau, Data Visualization,

CERTIFICATES

AWS Certified Cloud Practitioner — Google Data Analytics Certificate — IBM Data Science Professional

EXPERIENCE

Data Science Intern

BlueAlpha AI

Dec. 2025 – Present

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

Kaiser Permanente

June. 2025 – Sept. 2025

Los Angeles, CA

- * Analyzed pediatric surgical outcomes across 10+ hospitals to identify performance trends and areas for improvement
- * Developed in 6 weeks a Power BI dashboard comparing internal outcomes to ACS NSQIP benchmarks, making cross-hospital comparisons faster and clearer
- * Directed and presented patient outcome analyses to senior Surgical Clinical Reviewers, translating complex data into clear, clinically meaningful insights

Data Science / SWE Intern

Biju Inc (Hybrid)

Mar. 2024 – June. 2025

Santa Rosa, CA

- * Collected, cleaned, and analyzed user and transaction data to identify patterns and issues affecting application performance.
- * Combined and analyzed structured invoice and client communication data to support billing workflow optimization and improve data reliability
- * Validated and analyzed structured invoice and client communication data to identify billing workflow issues and support process improvements.

PROJECTS

Identifying Users via Keystroke Behavior | *Python, scikit-learn, XGBoost*

Dec. 2025

- * Built session-aware ML models to identify users from keystroke timing data, achieving 86% accuracy across 51 users
- * Showed that user distinctiveness, not typing consistency, drives identification performance using a separability metric.

Traffic Sign Classification (CNN) | *Python, TensorFlow, Neural Networks, Deep Learning*

Jan. 2026

- * Built and optimized 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

Comparing Regression Models for Housing Prices | *Python, Machine Learning, Scikit*

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.

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>