

Alex Dieter

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EDUCATION

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

Expected Graduation: June 2026
GPA: 3.7

SKILLS

Technical Skills: Python, R, SAS, SQL, Snowflake, PowerBi, Pandas, AWS, Azure, ETL/ELT, dbt, Excel, BigQuery, MatLab, SciPy, Big Data, Fivetran, Redshift, A/B Testing, Data Analytics, Data Analysis, Statistics
LLMs, AI, Databricks, Version Control, Git, Microsoft Teams, Data Visualization, AngularJS, HTML/CSS, JavaScript

CERTIFICATES

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

EXPERIENCE

Data Science Intern

BlueAlpha AI | Python

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 | Snowflake, PowerBI, Python, DataBricks

June. 2025 – Sept. 2025
Los Angeles, CA

- * Co-authored research abstract on opioid prescribing patterns accepted to ACS NSQIP, presented findings to 500+ clinical professionals
- * Analyzed 100,000+ pediatric surgical cases across 10+ hospitals, building Power BI dashboards that reduced outcome comparison time by 95%
- * Leveraged Snowflake for structured data querying and Databricks for transformation and batch-style analytics in pipeline-oriented workflows.
- * 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) | AngularJS, Azure

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

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.
- * Built end-to-end pipeline: trained CNN → deployed as API → integrated with drag-and-drop web UI
- * Live Demo: <https://alexdieter.com/projects/project2>

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

Dec. 2025

- * Built a reproducible, script-based analysis pipeline designed for batch execution in a cloud analytics environment.
- * Built session-aware ML models to identify users from keystroke timing data, achieving 86% accuracy across 51 users

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 R² 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>