

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 <i>BlueAlpha AI</i>	Dec. 2025 – Present <i>Santa Barbara, CA</i>
* 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 <i>Kaiser Permanente</i>	June. 2025 – Sept. 2025 <i>Los Angeles, CA</i>
* 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 <i>Biju Inc (Hybrid)</i>	Mar. 2024 – June. 2025 <i>Santa Rosa, CA</i>
* 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 <i>Python, scikit-learn, XGBoost</i>	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) <i>Python, TensorFlow, Neural Networks, Deep Learning</i>	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 <i>Python, Machine Learning, Scikit</i>	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	