

Kyle Shiroma

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Education

University of California, San Diego

B.S. in Data Science

La Jolla, CA

Expected June 2027

Experience

Southern California Edison (SCE)

Incoming Data Science Intern

Pomona, CA

Incoming

HDSI Lab 3.0, University of California, San Diego

Data Science Fellow

La Jolla, CA

October 2025 – Present

- Built and deployed lab website using Astro and React, collaborating with team to ship production-ready site.
- Led data science and Arduino workshops for K-12 students, designing hands-on programming modules to strengthen technical literacy.

Data Science Student Society (DS3) | UCSD Center for Energy Research

DS3 Consultant

La Jolla, CA

January 2026 - March 2026

- Built a public-facing D3.js dashboard visualizing 25+ years (2000–2023) of oil imports data across 10 major importing countries, enabling interactive country comparison and forecast exploration.
- Implemented Log-ARIMA models selected via AIC grid search, generating projections through 2030 with 2.4%–6.1% MAPE across countries (e.g., 3.2% China, 2.8% U.S.), including 95% confidence intervals and walk-forward validation.

CIC-Summer Research Program, California State University, Fullerton

Data Science Research Intern

Fullerton, CA

May 2024 – July 2024

- Built and evaluated machine learning models (Logistic Regression, XGBoost, Random Forest) on 5,900+ UEFA matches using engineered features (dynamic Elo ratings, venue indicators).
- Achieved 61% accuracy with 20% recall improvement for the rare "Draw" class; identified Elo difference as the most influential feature through feature importance analysis.

Projects

Customer Segmentation with RFM Analysis

- Analyzed 500,000+ retail transactions across 37 countries using SQL-based ETL workflows and Excel exploratory analysis.
- Performed RFM segmentation, identifying five distinct customer behavior groups (e.g., Big Spenders, At-Risk Customers).
- Delivered a Tableau dashboard, enabling marketing teams to improve spend allocation by 25% and target high-risk customer segments.

Pulsepanion – AI4Purpose x ASA NYC Hackathon Winner (Team Lead)

- Led a cross-functional team to develop a bilingual R Shiny dashboard enabling caregivers to upload patient health data and generate actionable summaries in <15 seconds.
- Integrated Python scripting and OpenAI-powered responses via reticulate reducing manual review time by 70%.
- Presented the solution to industry judges and healthcare stakeholders, clearly communicating technical design, user impact, and business value.

Skills

Programming: Python, SQL, R, C++, JavaScript, HTML/CSS

Data Science: Time Series Forecasting, Feature Engineering, Model Evaluation, A/B Testing

Data Visualization: Tableau, Matplotlib, Seaborn, Recharts, D3.js

Libraries & Tools: Pandas, NumPy, Scikit-learn, Statsmodels, Git, Linux, Excel