Kyle Shiroma

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Education

University of California, San Diego   **La Jolla, CA**
B.S. in Data Science, Minor in Mathematics   *Expected June 2027*

Experience

Southern California Edison (SCE)   **Pomona, CA**
- *Incoming Data Science Intern*

HDSI Lab 3.0, University of California, San Diego   **La Jolla, CA**
Data Science Fellow   *October 2025 – Present*
- Hardware Engineering: Developed an interactive 3D fiber optic simulation using servos and custom 3D-printed actuators to demonstrate physical data mapping.
- Educational Outreach: Leading data science workshops to improve technical literacy for K-12 students through hands-on programming modules.

Data Science Student Society (DS3) | UCSD Center for Energy Research   **La Jolla, CA**
DS3 Consultant   *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   **Fullerton, CA**
Data Science Research Intern   *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 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 (ARIMA), Feature Engineering, Model Evaluation, A/B Testing
Data Visualization: Tableau, Matplotlib, Seaborn, Recharts, D3.js
Tools & Databases: Git, Linux, Excel, PostgreSQL, SQLite