

Ian Sequeira

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https://ian-sequ7.github.io/ian_sequeira/

Thorough and ambitious Data Engineering student with expertise in statistical modeling, programming, and data analysis who is committed to using data-driven solutions to push the frontier in healthcare and financial sectors.

Education

The University of California, Santa Barbara

B.A. in Economics & B.S. in Statistics & Data Science

09/2023 - 06/2027

Cumulative GPA: 3.80/4.0

Relevant coursework: Computer Science Problem Solving, Economic Theory (Intermediate), Calculus I/II/III/Proof Writing, Statistical Theory, Statistical Methods and Data Science R & SQL

Programming Languages & VC: C++, R, SQL, Python, JavaScript, Pine Script

Tools/Soft Skills: Microsoft Suite, Databricks, Statistical Modeling, Quantitative Research, Git

Work Experience

Alida Inc., Student Intern Data Engineer

09/2024 - Present | **Remote**

- Built AI-powered Query System in Databricks using Unity Catalog, Neo4J, and LangChain to enable natural language querying of healthcare datasets through intelligent caching and automated SQL generation
- Engineered array-aware join recovery for healthcare data, automatically handling complex entity-interaction mappings and reducing data retrieval complexity & interpretability by 85%

UC Irvine SIB's Research Fellow

06/2025 -08/2025 | **UC Irvine**

- Analyzed 1,150+ Alzheimer's patients using GLM, ridge, and CART in R, achieving 0.835 AUC and identifying biomarkers (PACC scores, ADL indicators, pTau217) that cut sample size by 25%, with reproducible code on GitHub
- Developed statistical framework aligning with survival analysis results, demonstrating 188 participants sufficient to detect treatment effects with 80% power, compared to 500+ for single predictors

Project Experience

Project Executive, ACM Industry

09/2025 - Present | **UCSB, CA**

- Directing collaborative data and software projects between students and industry partners, managing teams to deliver applied Computer Science and Data Science solutions through ACM Industry's UCSB branch

Finance Committee, CampMed

09/2025 - Present | **UCSB, CA**

- Lead grant writing, budgeting, and fundraising for CampMed, a UCSB organization advancing public health education for disadvantaged high school students through mentorship programs and workshops
- Establish financial controls and funding initiatives that expand outreach in biostatistics & health equity

Financial Algorithm Development, Personal Project

01/2025 - 06/2025 | **Santa Barbara, CA**

- Developed two Pine Script trading algorithms achieving Sharpe ratios of 1.2-1.8 and 65-75% win rates using momentum, mean reversion, and breakout strategies with ATR-based risk management

Skills & Extracurriculars

Clubs: ACM Industry, Data Science Club, Finance Connection Club, Club Volleyball

Languages: English (Fluent), Spanish (Fluent), French (Beginner)

Technical Skills & Certifications: Oracle DB & SQL Certification (2023), Microsoft Services, Microsoft Azure Services, R, Python, SQL, HTML & CSS, JavaScript, C++, Matlab (Intermediate), Online Statistical AI Modeling and Machine Learning Course (Coursera UCSD, 2024), Online Financial Markets Course (Coursera Yale, 2024)