

# Nathan Ho

(209)990-2164 | [nathanho30@gmail.com](mailto:nathanho30@gmail.com) | [www.linkedin.com/in/nathanho27](http://www.linkedin.com/in/nathanho27) | Stockton, CA | <https://github.com/nathanho27>

## Education

### B.S. University of California, Santa Barbara

Sep 2021 - Jun 2025

Major: Statistics and Data Science | GPA: 3.54

Dean's Honors: Dec 2021, Mar 2022, Mar 2025 | Activities: Data Science Club, Datathon Participant

Relevant Courses: Statistical Data Science, Time Series Analysis, Regression Analysis, Big Data Analytics, Advanced Python, Stochastic Processes, Advanced Statistical Methods, SAS Base Programming

## Technical Skills

**Programming Languages:** Python, SQL (PostgreSQL, SQLite, MySQL), R, SAS

**Data Analysis Tools:** Tableau, Power BI, Excel (Pivot Tables, Lookup Functions), Git/GitHub, Databricks

**Platforms/Cloud:** Apache Spark, Google BigQuery, Microsoft Azure, AWS

**Skills:** ETL pipelines, data cleaning, data modeling, KPI reporting, dashboard design (Tableau/Power BI), automated reporting, API integration, exploratory data analysis

## Projects

**Crypto Market Analysis Dashboard (Oct 2025 – Nov 2025):** Designed and built an end-to-end crypto reporting pipeline. Used **Python** to ingest BTC/ETH price data using the **CoinGecko API**, stored it in a structured **SQLite** database, transformed it into daily aggregates, and calculated **KPIs** including percent from all-time high, volatility regime classification, and daily return distributions. Published the output to **Tableau** as an interactive dashboard that allows asset comparison and trend exploration.

**NBA Stats & Analytics Content Creator (Mar 2025 – Present):** Extract NBA player and game data using the **NBA API** and analyze trends in **Python** to generate actionable insights. Develop **Tableau** dashboards and static visual content, including player comparisons and per-game performance summaries. Apply statistical storytelling to grow the Instagram account to over 2,000 followers by combining analytics-driven insights with sports expertise.

**Big Data Oregon Voter Analysis (Mar 2025 – Jun 2025):** Processed and analyzed 3 million Oregon voter records using **Databricks**, **PySpark**, and **SQL**. Engineered features such as registration date, vote history, and demographic clusters for modeling. Trained **Random Forest** models to predict voter turnout with **81% accuracy**; used **K-Means** to segment voters into behavioral profiles.

**NVIDIA Stock Time Series Forecasting (Jan 2025 – Mar 2025):** Analyzed three years of NVIDIA price data in **R** to identify volatility patterns and risk zones, using time-based filtering and statistical summaries to evaluate return behavior, highlight instability, and track trend changes.

## Experience

### Undergraduate Research Assistant, UC Santa Barbara

Dec 2021 - Mar 2023

*Anthropology Department, Brown Lab*

- Cleaned and processed antibody datasets in **Excel**, applying standard curve modeling in **R** to analyze concentrations. Automated repetitive statistical workflows in **R** to improve efficiency and ensure analytical consistency.
- Created publication-ready visualizations in **RStudio** using **ggplot2** to support research outputs.

### Data Science Fellow, UC Santa Barbara

Sep 2021 - Nov 2022

*Center for Black Studies Research (CBSR)*

- Developed **R** and **Python** scripts to analyze and visualize large-scale datasets on social equity and systemic bias.
- Conducted exploratory data analysis with **dplyr**, **ggplot2**, **tidyR** (**R**) and **pandas**, **matplotlib** (**Python**) to uncover trends in marginalized communities and present findings in an accessible format for stakeholders.