

Nathan Ho

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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.