

Nathan Ho

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Education

University of California, Santa Barbara

Sep 2021 - Jun 2025

Bachelor of Science, 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

MLB Player Performance Trajectory Analysis (Dec 2025 – Present) | github.com/nathanho27: Implemented a longitudinal analytics pipeline using **Python**, **SQL**, and **Power BI** to understand how player outcomes change over time. Modeled season-level and rolling performance metrics within a structured **MySQL** database to identify breakout, decline, and stable trajectories. Explored year-over-year trends through an interactive dashboard.

Yelp Business Intelligence Platform (Nov 2025 – Dec 2025) | github.com/nathanho27: Developed a full BI platform using **Python** and **PostgreSQL** to model **Yelp API** data into structured raw and cleaned tables. Created KPI datasets for pricing, ratings, and competitive density to deliver a **Power BI** dashboard that visualizes business performance and market saturation with ML extensions for expected rating and closure prediction.

Crypto Market Analysis Dashboard (Oct 2025 – Nov 2025) | github.com/nathanho27: Designed and built an end-to-end crypto reporting pipeline using **Python**, **Excel**, and the **CoinGecko API**. Ingested BTC/ETH price data using **Python** into a structured **SQLite** database and calculated KPIs including drawdowns from all-time highs, and daily return distributions. Exported curated KPI tables to **Excel** for reporting workflows and deployed an interactive **Tableau** dashboard for multi-asset comparison, trend evaluation, and volatility pattern exploration.

Big Data Voter Analysis (Mar 2025 – Jun 2025) | github.com/nathanho27: Worked with a team to process and analyze 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.

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.