Nathan Ho

(209)990-2164 | nathanho30@gmail.com | 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), R, JavaScript, 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. Visualized regional turnout patterns and voting trends using **matplotlib** and interactive **Plotly** choropleths.

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

Research Laboratory Intern, 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 Research 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.