

## ROHAN ARORA

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### EDUCATION

#### THE GEORGE WASHINGTON UNIVERSITY, Honors Program

Washington, DC

##### BS in Data Science and Economics, History

May 2025

GPA: 3.94, Dean's List

Relevant Coursework: Data Mining, Business Statistics, Data Warehousing, Financial Economics, Data Visualization, Econometrics, Linear Algebra, Enlightenment Philosophy, Bayesian Statistics, Multi-Variable Calculus

### TECHNICAL SKILLS

**Languages:** RStudio (Advanced), Python (Intermediate), SQL (Advanced), Stata (Intermediate), Tableau (Basic), Power BI (Intermediate), Excel (Intermediate), MongoDB (basic), Neo4j (basic)

**Libraries/Packages:** NumPy, Pandas, Matplotlib, Seaborn, Plotly, Statsmodel, Scikit-learn, dplyr, ggplot2, tidyr, shiny, JAGS

### EXPERIENCE

#### FEDERAL RESERVE BOARD

Washington, DC

##### Business Operations, Planning, and Analysis Intern

May 2023 – Current

- Engineered a content-based job recommendation algorithm by scraping 150+ job descriptions, applying NLP techniques to extract relevant features, and developing a machine learning model using TF-IDF and Cosine Similarity, resulting in highly personalized job and skill recommendations.
- Developed a SARIMA time series forecasting model for a \$600,000 annual travel budget in Python, leveraging NumPy, Pandas, statsmodel, and Matplotlib. Employed Monte Carlo simulations to validate and enhance the model's performance. The optimized model led to substantial cost reductions and improved decision-making, resulting in a 20% increase in budget utilization efficiency.
- Created and regularly updated Tableau and Power BI dashboards to visualize over \$10 million in division expenses to provide managers with clear and comprehensive insights, enabling them to make data-driven decisions that optimize resource allocation and identify cost-saving opportunities.

#### HONORS RESEARCH ASSISTANTSHIP

Washington, DC

##### Research Assistant for Prof. Adam Dean

October 2022 – May 2023

- Constructed and analyzed an extensive panel dataset covering 3,143 counties over a period of 22 years, applying quasi-experimental and regression analysis techniques using R and STATA, to explore the influence of unionization on voting access measures, such as ballot box availability in the U.S.
- Developed and analyzed a comprehensive dataset of over 100 countries spanning 53 years, employing data analytics tools like R to examine the impact of U.S. influence on global economic liberalization efforts, elucidating key trends and factors to contribute valuable insights to the discourse on policymaking.
- Conducted an in-depth review and synthesis of relevant literature, leveraging critical research skills to validate and enrich data analysis, ensuring the robustness of findings and strengthening the integrity of the study's conclusions.

#### SOCIALLY RESPONSIBLE INVESTMENT FUND

Washington, DC

##### VP for Healthcare Sector

September 2022 – Current

- Utilized Bloomberg Terminal and FactSet to assess market trends, economic indicators, and investment opportunities, effectively aligning investment decisions with fund objectives and risk tolerance.
- Led a cohesive team of 7 skilled analysts in facilitating 9 weekly meetings per semester, effectively identifying prospective investment opportunities, and orchestrating comprehensive pitch preparation for targeted companies.
- Developed a DCF model to evaluate the financial viability of prospective investments, ensuring informed decision-making and strategic fund growth.

#### AMERICORPS

St. Louis, MO

##### Mission STL: Beyond School Success Coach

August 2020 – July 2021

- Mentored 13 sixth graders at St. Louis Language Immersion School. Met students two-to-five days per week individually to help them meet literacy and math class goals and to support their social development.
- Liaised with caretakers and teachers to create personalized learning materials and strategies, contributing to a 100% graduation rate, with one of my students receiving the Beyond School student of the year award.
- Recruited and trained 40 volunteers from local colleges to allow tutoring of more students needing academic support.