Julia Barrow

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EDUCATION

University of North Carolina at Chapel Hill — Chapel Hill, NC   *August 2020 - May 2024*

Double Major in Statistics & Analytics and Economics (BS), Spanish for the Professions Minor

- 3.96 Cumulative GPA; Dean's List Fall 2021 - Fall 2023
- Member of Honors Carolina and Phi Beta Kappa Honor Society
- Relevant Coursework: Machine Learning, Data Science, Methods of Data Analysis, Network Analysis, Stochastic Modeling, Econometrics, Probability, Advanced Microeconomics

RELEVANT EXPERIENCE

Pillar4 Media — Data Science Intern; Raleigh, NC   *January - April 2023; August - December 2023*

- Coded multiple versions of random forest, MARS, and neural network models in development of prediction tool
- Delivered new analysis of geographic features of consumer behavior through creation of interactive R maps
- Utilized Git for version control and collaborated with team members to efficiently update code
- Built interactive R dashboards and completed quality assurance to improve data accessibility for stakeholders

JPMorgan Chase & Co. — Summer Payments Analyst | Supply Chain Finance; Jersey City, NJ   *June - August 2023*

- Cleaned and updated data from multiple sources to ensure records matched across platforms, resulting in over 20% increased account accuracy
- Led team of interns in Salesforce data reconciliation exercise for over 10,000 accounts, requiring coordination across multiple business units to source information

Doria Wines — Database Programmer; Arnold, MD   *August 2022 - January 2023*

- Created reliable and organized PostgreSQL database and made modifications according to user requests
- Built custom R Shiny app to automatically connect to database and allow widespread access

Pillar4 Media — Customer Analytics Intern; Raleigh, NC   *June - August 2022*

- Generated new consumer insights in project involving parsing strings in SQL database, wrangling data in R, analyzing data in Excel, and creating a dashboard displaying results to allow company-wide access
- Constructed random forest and gradient boosting machine models to predict consumer behavior
- Partnered with video team to create Google Data Studio dashboard allowing SQL database access for non-technical users increasing reporting accuracy by 17% and saving several hours of time each week

ADDITIONAL EXPERIENCE

Carolina Analytics & Data Science Club — Finance Chair; Chapel Hill, NC   *September 2021 - Present*

- Developed personal finance R Shiny app and workshop to demonstrate features of package to members
- Designed and led workshops in web scraping, image processing, and data visualization in R and Python

Pearl Hacks — Participant; Chapel Hill, NC   *February 2023*

- Constructed dynamic R Shiny finance app with team in under 24 hours and demoed app to judges and participants

Carolina Data Challenge — Participant; Chapel Hill, NC   *September 2021; September 2023*

- Created interactive map in Tableau displaying descriptive analysis of natural disasters across the United States

ASA DataFest at Duke — Participant; Durham, NC   *March 2023*

- Analyzed data to understand user patterns and suggest improvements to add value to platform of interest
- Led team in creating and presenting tangible solution to low platform engagement based on data analysis

Citadel Trading Challenge — Participant; Virtual   *October 2021*

- Utilized quick manual calculations and strategic decision-making to make educated offers in simulated markets

SKILLS

Technical Skills: R, Python, SQL, Git, Tableau, Stata, AMPL, Mathematica, Microsoft Excel, R Shiny, Shiny for Python, Salesforce, Google Data Studio, Data Wrangling, Machine Learning, Data Visualization, Web Scraping

Languages: Italian, Native speaker; Spanish, Accredited with State of Maryland Spanish Seal of Biliteracy