

ELIZABETH C. MEDLIN

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EDUCATION

William & Mary

2024

Master of Science in Business Analytics

Key Courses: Probability & Statistics with R, Business Modeling with Python, Databases & Data Warehouses for Business Intelligence, Optimization & Prescriptive Analytics, Decision Modeling, Machine Learning & Predictive Analytics, Big Data & Cloud Computing Technologies, Artificial Intelligence Applications for Business

Columbia University

2017

Graduate Foundations Certificate, Focus on Mathematics & Economics

North Carolina State University

2014

BA in International Studies, BA in Spanish Language & Literature

EXPERIENCE

FEDERAL RESERVE FINANCIAL SERVICES

2023- Present

Senior Business Analyst

- Created a data repository for risk events and optimized it for maximum ease and efficiency using data management best practices. This saved the team time each month in data cleaning, validation, and standardization.
- Led exploratory data analysis, Tableau visualization, data storytelling, and wrote presentations for the team.
- Coordinated risk event investigation with business lines throughout the enterprise.
- Researched, wrote articles and acted as a thought leader for AI use within FRFS and the Federal Reserve System.
- Specialized in creating concrete deliverables based on general ideas from upper management.
- Led monthly and weekly team culture initiatives for greater unity, bonding and organization.

FEDERAL RESERVE BANK OF RICHMOND

2019 - 2023

Financial Analyst

- Designed an RPA bot while serving on District & System projects in data analytics, automation & FedNow. The bot saves all analysts an hour daily.
- Automated and tested District & System processes in an Agile-aligned environment. Applied SQL, Tableau & Robotic Process Automation to design operational efficiencies and reduce user error.
- Facilitated FOMC monetary policy directives, such as ending Reserve Requirements during the COVID-19 pandemic. Examined how the pandemic impacted Reserves data and told stories on how it affected Fifth District communities.
- Conducted quantitative and qualitative research on reserve balances, wrote analytical papers & presented findings to leadership teams for System Reserves & local Statistics functions, giving management a daily assessment of the Reserves landscape and saving time for analysts via automation.
- Built a high-priority inaugural data management framework for the System Reserves function. Wrote data governance and data lifecycle documents, giving management and analysts guidance on how data should be applied in day-to-day work.

LONDON STOCK EXCHANGE GROUP

2019

Data Analyst

- Extracted, cleaned, and validated data on Corporate Actions and IPOs for companies in the Americas and EMEA. Analyzed this data to guide portfolio strategy for the stock exchange.
- Identified and presented ideas for automation and process optimization, reducing manual labor performed by analysts.
- Troubleshooted database issues across multiple databases, allowing managers to establish companies for portfolio inclusion easier.
- Created reports on daily market happenings to keep managers informed of potential portfolio strategy changes.

COLUMBIA IMPACT INVESTING INITIATIVE

2017

Consultant

- Constructed a business plan for a proprietary technology, thus facilitating a product launch in emerging markets.
- Devised scenarios in Latin America/ Caribbean where farmers could utilize new technology, enabling greater efficiency, sustainability, and profit for them.
- Created a feasibility study on introducing new technology to markets in Kenya for product success.

PUBLICATIONS

- *The New International Volunteer: A Hands-On Guide to Sustainable & Inclusive Development (2023)* by Toplight Books, an Imprint of McFarland Publishing.

WORKING PAPERS

- Measuring and Forecasting Agricultural Production Sustainability Based on Business Model Components and the Application of Artificial Neural Networks: The Case of the Mezcal Agave Plant.

TECHNICAL SKILLS

- R, Python, SQL, Tableau, Git, GitHub, Google Cloud Platform (GCP), Amazon Web Services (AWS), Apache Spark, Hadoop, Alteryx, Agile Methodologies, Bloomberg Terminal

LANGUAGES

- English (Native), Spanish (Advanced)