

**DATA ANALYST****EDUCATION****Wake Forest University School of Business**, Winston-Salem, NCMaster of Science in Business Analytics, May 2026**Wake Forest University**, Winston-Salem, NCBachelor of Science in Computer Science, May 2025

Minor in Mathematics, Minor in Entrepreneurship

**GPA:** 3.61 **Honors:** Dean's List**Relevant Coursework:** Algorithm Design and Analysis, Software Engineering, Machine Learning, Mobile and Pervasive Computing, Computer Systems 1 & 2, Linear Algebra 1 & 2, Codes and Cryptography, Ethical Computer Science**AREAS OF EXPERTISE**Machine Learning | Data Analysis | Feature Engineering | Problem Solving | Model Development | Research & Experimentation  
Technical & Business Communication | Cross-functional Collaboration | Cloud Computing | Data Visualization | Analytical Thinking  
Automation & Efficiency | Team Leadership | Statistical Computing | Time Management | Data Engineering | Model Interpretability  
Data-Driven Decisions | Model Evaluation | Project Ownership | Agile Workflow | Strategic Thinking | Business Impact Analysis**TECHNICAL SKILLS****Programming Languages:** Python, SQL, Java, C, HTML, CSS, JavaScript, C++, Racket**Machine Learning:** Logistic/Linear Regression, Naïve Bayes, SVM, K-Means, Neural Network (backprop), Decision Tree, Ensemble (AdaBoost, Bagging) (all implemented from scratch using NumPy); Random Forest, XGBoost (scikit-learn)**Data Analysis & Experimental Design:** Exploratory Data Analysis, Data Cleaning, Feature Engineering, Statistical Inference**Analytical Tools & Platforms:** Databricks, Snowflake, MicroStrategy, MS SQL Server, Power BI, Excel, Jupyter**Cloud & Database Technologies:** DynamoDB, MySQL, AWS (App Runner, Lambda, S3, IAM, EventBridge, QuickSight), GCP Colab**Software Engineering Tools:** Git, VSCode, Android Studio, Cursor, Jira, Azure DevOps, Shell/Bash**Statistical & Computational Tools:** Mathematica (Symbolic Computation), SageMath (Cryptography and Number Theory)**PROFESSIONAL EXPERIENCE**DIGITAL BUSINESS SOLUTIONS INTERN | **Reynolds American Inc.** | Winston-Salem, NC

May 2024 – Aug 2024

- Developed a comprehensive equipment data model to transition Operations reporting from a fixed system to a dynamic ad hoc reporting environment, leveraging tools such as Databricks SQL, Snowflake, and MicroStrategy to optimize data querying, aggregation, and visualization, significantly enhancing data accessibility and decision-making capabilities
- Collaborated with cross-functional teams, including ETL developers, DBS Mexico Tech Hub, and plant performance/quality stakeholders at the Tobaccoville MFG plant to optimize model for specific business requirements and performance KPIs
- Produced and delivered a high-impact presentation to 100+ colleagues, including senior leaders and fellow interns, highlighting the project's strategic value and business implications. Provided detailed project documentation for future use

IT INTERN | **Easton Utilities** | Easton, MD

July 2023 – Aug 2023

- Developed and implemented a customer analysis snapshot within customer portal; a tool to reduce issue resolution time and enhance efficiency for the Customer Service team by providing concise and useful information on any searched customer
- Created and delivered a 15-minute presentation to showcase strategic benefits of Customer Analysis to 15+ leaders
- Successfully transitioned into full-stack development by rapidly acquiring proficiency in SQL, JavaScript, and HTML

SAILING COACH | **Tred Avon Yacht Club** | Oxford, MD

June 2021 – Aug 2022

- Taught 100+ students of various ages and experience levels, increasing confidence and sailing ability by creating daily lesson plans of chalk talks and land/on-water drills strategically customized to target sailors' most significant weaknesses
- Coached racing team at various large regattas and developed tactics based on weather conditions, analyzed team member's on-water performance, and provided feedback to improve outcome of following races, leading to top 3 Laser racing wins

**COMPETITION & LEADERSHIP EXPERIENCE**1<sup>ST</sup> PLACE TEAM LEADER | **McKinsey & Co. Case Competition** | Winston-Salem, NC

June 2023

- Led a 4-person team in a Wake Forest and McKinsey & Co. case competition, analyzing a real-world business problem and developing data-driven marketing strategies to improve brand visibility, reach, and placement effectiveness
- Created and presented analytical findings using empirical methods to 50+ participants, WF faculty, and McKinsey professionals

**TECHNICAL PROJECT EXPERIENCE****“Meta-Learning for Coreset Selection: Identifying Optimal Techniques Across Diverse Datasets”:** Conducted a semester-long research project evaluating 10 coreset selection techniques across 75+ datasets from domains including finance, healthcare, and technology. Extracted dataset-level metadata (e.g., dimensionality, class imbalance, redundancy) to train a meta-model that predicts the most effective coreset strategy for a given dataset. Built and tuned Decision Tree and Random Forest models using custom-engineered features. Evaluation metrics (e.g., ROC AUC, MSE) were recorded separately for post-hoc analysis and pattern discovery.**Personal Portfolio Website:** Designed and deployed a portfolio showcasing selected projects. View GitHub repositories and detailed write-ups for all projects at: colinward77.github.io