

DATA ANALYST

EDUCATION

Wake Forest University School of Business, Winston-Salem, NCMaster of Science in Business Analytics, May 2026

Honors & Activities: Wake Forest Baseball Team Graduate Analyst and Statistician, Management Consulting Club, Program Ambassador

University of Alabama, Tuscaloosa, ALBachelor of Science in Management Information Systems, December 2024

Honors & Activities: Alabama Information Management Society (AIMS), UA Data Analytics Club, Phi Sigma Kappa

AREAS OF EXPERTISE

Quantitative Analytics | Data Science | Predictive Modeling | Data Analysis | Statistical Analysis | Data Extraction | Software Development | Programming

Data Visualization | Automation | Data Modeling | Process Optimization | Leadership | Mathematic Analysis | Database Management | AI/ML Design

Data Pipelines | Systems Engineering | Database Architecture | Supervised/Unsupervised Learning | Model Deployment | Algorithms | Regularization

TECHNICAL SKILLS

Programming Languages: Python, SQL, R, C#, HTML, JavaScript, CSS, Dax, Node.js, .Net

Technical Tools: Power BI, Tableau, Plotly, Matlib, Ggplot2, Seaborn, Streamlit, Excel

Machine Learning: XGBoost, Bayesian, Random Forests, Ensembling, GAMs, Lasso-Ridge, Stacking, Time Series, Neural Networks, Monte Carlo, MCMC

Operating Environments: R Studio, VS Code, Jupyter, MySQL, SQLite, DBeaver, GitHub, Microsoft Office (All Apps)

PROFESSIONAL EXPERIENCE

GRADUATE CONSULTANT PRACTICUM TEAM LEAD, PetSafe BrandsSep 2025 – Present

Served as a team lead for client meetings, and helped lead efforts in project development

Applied machine learning model techniques to identify optimal discount product depths for client market research

Conducted market research for feature engineering, competitor strategies, and price volatility factors

GRADUATE BASEBALL DATA ANALYST / STATISTICIAN, Wake Forest University BaseballJun 2025 – Present

Developed 3 comprehensive predictive machine learning pipelines from 195,000+ total fastball pitch event observations; whiff outcomes, groundball tendencies, and BABIP models using gradient boosting and created a pitcher stuff+ model for fastball data using gradient boosting and stacking

Generated actionable insights through pitcher performance leaderboards, delta analysis identifying over/under-performers, and comprehensive visualization analysis including correlation matrices, histograms, scatterplots, and feature importance plots

Built a Shiny App for each predictive model to allow real-time interactive metric calculators for pitchers on their raw ball flight characteristics

DATA ANALYST / INFORMATION SYSTEMS ENGINEER CO-OP, Mercedes-Benz USAug 2023 – Sep 2024

Collaborated with manufacturing leadership, implementing data-driven optimization strategies and Python code that increased cart space efficiency by 15% which also reduced operating material costs, demonstrating commercial awareness

Managed complex deployment of predictive scheduling optimization solutions coordinating cross-functional teams, while developing client-facing Power BI dashboards for operational decision-making and cost optimization using full SDLC

BASEBALL DATA ANALYST / STATISTICIAN, University of Alabama Baseball TeamSep 2022 – Apr 2023

Designed a Python codebase with Plotly and Matplot libraries to manipulate large amounts of data and visualize effectively

Used shiny apps to construct detailed advanced scouting reports on for SEC play and other leagues when needed

Reviewed SQL databases for data processing at conclusion of games ensuring proper storage and organization

ANALYTICAL PROJECT EXPERIENCE

Deacon Financial Services Fraud Detection Project:

Performed data preparation and cleaning on a dataset of 900,000 observations through Python to prepare for modeling and learning phase

Constructed multiple machine learning classification models (linear regression, logistic regression, weighted logistic, random forests, XGBoost) achieving 88% fraud detection rate and identifying key risk predictors through proper visualization and undersampling techniques

Implemented a 3-tier system for dealing with fraud applications based on optimized threshold levels; high, medium, and low

Bayesian Pitcher Aging & Decline Detection Personal Project Model: (In-Development)

Architecting hierarchical Bayesian framework using R to model individual pitcher aging trajectories for velocity, movement, and command metrics, processing 10+ years of Statcast data to establish decline patterns and individual risk assessments

Implemented changepoint detection algorithms with real-time posterior updating to identify precise decline onset timing with uncertainty quantification, continuously refining probability estimates to distinguish natural aging from mechanical/injury-related degradation

Creating an interactive dashboard visualization using Shiny Apps to translate complex Bayesian posterior distributions into actionable insights

Future On-Base Percentage Performance Prediction Project:

Developed sophisticated ensemble machine learning model combining Ridge Regression, Gradient Boosting, and Random Forests to predict 2021 OBP's for 550+ MLB players using 5 years of historical performance data

Created advanced features including weighted historical OBP with recency bias, age-based performance curves, and mean regression methodology, implementing uncertainty quantification with confidence intervals accounting for player experience levels to provide actionable risk assessments

Delivered comprehensive documentation with feature importance rankings, model validation visualizations, and player-specific insights identifying high-confidence predictions versus regression candidates for roster construction applications

Senior Database Capstone Project:

Leveraged full-stack development to update client's front-end functionality with new features including class registration forms, attendance records, and admin/student login systems, managing the entire deployment lifecycle while considering engineering process standards and optimized client systems and SQL databases service records

LEADERSHIP EXPERIENCE

Eagle Scout: Led a cross-functional team of 30 volunteers as a project manager, designing and building the local K9 agility course reconstruction that improved police department training efficiency and demonstrated ambition for community service excellence

Apex Outreach Service Project: Volunteering for the local church to help rebuild homes in surrounding communities annually