

# Nickolas J. Bartle

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## EDUCATION

### Candidate for Master of Science in Business Analytics, May 2026

Wake Forest University, Wake Forest College of Business, Winston-Salem, NC

### Bachelor of Science in Commerce & Business Administration, December 2024

The University of Alabama, Culverhouse College of Business, Tuscaloosa, AL

Major: Management Information Systems

## PROJECT WORK

### Python Codebase & SQL Database Project (Capstone Project), August 2024 – December 2024

- Leveraged Python, JavaScript, and HTML codebase to update client's front-end functionality with new features including class registration forms, attendance records, and creating admin/student logins for the webpage
- Rebuilt and optimized SQL databases and data connections to securely store and update client service records for an online learning platform (OTIDE), improving data accuracy and system downtime by 18%
- Refactored legacy code to enhance maintainability and support long-term feature scalability across future platform updates

## WORK EXPERIENCE

### Graduate Baseball Data Analyst, July 2025 – Present

Wake Forest University Baseball, Winston-Salem, NC

- Built advanced scouting reports from TruMedia and Trackman files, performing data manipulation and regression modeling in R and Python packages.
- Leveraged cutting edge analytics such as force plate, 3D spin vectors, contact position, shove score, advanced biomechanics to drive performance analytic decisions on
- Developed individualized hitter and pitcher profiles based on key performance indicators (KPIs) using custom Python code.
- Applied machine learning models in both Python and R to generate predictive insights and inform coaching strategy.
- Created visualizations using Seaborn and ggplot2 to clearly communicate trends and performance breakdowns with coaching staff and directors.
- Created R Scripts involving xgBoost models to create interactive quantifiable Stuff+ and wStuff+ metrics for pitching staff.
- Designed and deployed statistical models including GAMs, log models, boosted models, and exploratory data tools

### Information Systems Co-op, August 2023 – September 2024

Mercedes-Benz International, Vance, AL

- Implemented an SQL database to centralize vehicle torque data, reducing employee downtime by 30 minutes
- Led a supply chain optimization project to improve part cart space utilization between the warehouse and online production checkpoints, increasing transport efficiency and reducing material handling time
- Built interactive Power BI dashboards to analyze plant-wide manpower data, enabling data-driven staffing decisions that improved on-line team performance and reduced daily faults by 4.6 per station
- Engineered a custom Python solution to scrape scheduling data and generate three interactive predictive performance models, comparing outcomes across two proposed plant schedules

### Baseball Data Analyst, September 2022 – April 2023

University of Alabama Athletics, The University of Alabama, Tuscaloosa, AL

- Designed a Python codebase with plotly and matplotlib libraries to manipulate large amounts of data and visualize effectively
- Built codebase to utilize real-time trackman data and generate in-depth KPI reports off of
- 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

## HONORS & ACTIVITIES

Eagle Scout Member		AIMS (Alabama Information Management Society)
Alabama Baseball Data Analytics Team		AOSP (Apex Outreach Community Service Project)
Wake Forest University Data Analytics Team		SEC (Wake Forest Student Engagement Council)
University of Alabama Data Analytics Club		SABR (Society for American Baseball Research)

## TECHNICAL SKILLS

**Languages:** Python, R, SQL, C#, HTML, JavaScript, CSS, Dax

**Certifications:** Rapsodo (Hitting), Rapsodo (Pitching), Microsoft Office (All Apps), Think-Cell

**Business Tools:** Power BI, TruMedia, KinaTrax, Synergy, Rapsodo, Trackman, Word, Excel, R Studio, VS Code, MySQL, .NET