

# Noah Thro



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## EDUCATION



**University of Virginia, School of Data Science**

*Master of Science in Data Science*

*GPA: 3.90*

*May 2024*



**Wake Forest University, School of Business**

*Bachelor of Science in Mathematical Business and Philosophy*

*GPA: 3.89*

*May 2022*

*Honors Thesis: "NBA Player Clustering Using Gaussian Mixture Modeling"*

## PROFESSIONAL EXPERIENCE



**Sports Info Solutions**

*Senior Basketball Research Analyst*

*March 2024 – July 2024*

- Led a team in the creation and validation of player pose metrics (including shooting, rebounding, and on-ball opportunity metrics) using Hawk-Eye Innovations 3D tracking data
- Provided evaluation and feedback iteratively to the artificial intelligence team in the automation of data collection

*Basketball Research Analyst*

*October 2023 – March 2024*

- Built and maintained data pipelines extracting data from various sources that fed into external API endpoints
- Developed data checks and data validation reports for manual data files collected by operations staff

*Basketball Research Associate*

*September 2022 – October 2023*

- Assisted with new product research and development by collecting and evaluating new data sources
- Developed and evaluated gambling lines (full game moneyline, full game spread, halftime and full game totals) for the Canadian Elite Basketball League in partnership with BetVictor
- Performed ad-hoc analyses (such as player spacing, metric stability, player credit splits, and prospect to NBA research) answering questions for team, media, and gambling clients



**Stats Perform**

*AI Intern*

*June 2022 – August 2022*

- Developed and validated a live win probability model for NHL games based on NHL play-by-play data
- Expanded on previous summer's modeling of football depth charts to improve model accuracy and efficiency
- Utilized video and play-by-play data to supply supplementary analysis to Stats Perform's AutoSTATS data for the Indonesian National Team competing in the 2022 FIBA Asia Cup

*Data Operations Intern*

*June 2021 – August 2021*

- Applied data science techniques to Stats Perform's college football data to create predictive depth charts
- Wrote articles and assisted with providing content for the Analyst, Stats Perform's fan engagement website
- Assisted with data collection and quality assurance on Stats Perform's AutoSTATS data



**Wake Forest Women's Basketball Team**

*Sports Performance and Basketball Analytics Intern*

*September 2019 – March 2022*

- Employed Synergy Sports Technology to maximize the team's potential using statistics and analytics
- Provided the coaching staff with post-game reports and analytical scouting reports highlighting player tendencies, shot location trends, and offensive and defensive efficiencies
- Supported the team by researching independent projects such as offensive rebounding and turnover analyses
- Utilized Polar and Catapult data to create a drill database for Women's Basketball and Men's Soccer teams

*Student Manager*

*September 2018 – March 2022*

- Managed everyday practice operations including running the clock, assisting with player and team workouts, etc.
- Created and maintained the team's database for practice statistics using Microsoft Excel
- Aided in the coordination and execution of 80 home game operations and travel operations

## ADDITIONAL



**Technical:** R, Python, SQL Server, Spark/PySpark, Git, AWS (Batch, Lambda, Athena, S3, etc.)



**Skills:** ETL Development, Data Warehousing, Data Analysis, Predictive Modeling, Data Visualization, Web Scraping