

Harrison Rubin

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Education

Vanderbilt University (Nashville, TN)

August 2025-May 2027 (Anticipated Graduation)

Master of Science in Data Science

- Relevant Coursework: Machine Learning, Database Management Systems, Data Science Teamwork in Practice, Probability & Statistical Inference, Principles of Programming & Simulation, Exploratory Data Analysis

Northwestern University (Evanston, IL)

September 2019-March 2023

Bachelor of Arts in Economics, Minors in Data Science and Business Institutions

- Relevant Coursework: Data Science with R, Data Visualization, Applied Econometrics, Database Management & Information Processing, Labor Economics, Political Economics, Corporate Finance
- President of Northwestern Sports Analytics Group

Work Experience

Prep Baseball (Remote)

March 2026-Present

Data Analyst

- Analyze baseball performance data collected at Prep Baseball events to identify meaningful insights; define and refine the metrics used to evaluate amateur baseball players
- Collaborate with the Data Operations and Product teams to make develop internal and external tools, including a pitcher arsenal analyzer tool using Claude
- Guide interns through their analytics projects; manage workflows, best practices, and project documentation

Vanderbilt University Athletic Department (Nashville, TN)

August 2025-March 2026

Analytics Intern (Roster & Finance Department)

- Provided coaches and other Athletic Department staff with short-term and long-term data analysis using R and Python
- Collaborated on several analytics projects, including a men's basketball player projection model

Arizona Diamondbacks (Phoenix, AZ)

February 2024-October 2024

Associate, Baseball Research & Development

- Developed an automated process to calculate players' Arm, Accuracy, and Speed grades using the TruMedia API
- Completed project on the relationship between force plate test metrics on several measures of on-field success
- Coordinated advance scouting efforts, including creating detailed reports on opposing players' on-field tendencies using TruMedia and SQL, aligning starting and relief pitcher plans, and providing key information for the Major League coaching staff
- Assisted in the team's Amateur Draft preparation and cleaning of NCAA data for the team's proprietary database

Harvard University Baseball (Cambridge, MA)

September 2023-February 2024

Director of Baseball Analytics

- Led and oversaw team's data analytics efforts, including pitch grade modeling and improved integration of baseball technologies, including Edgertonic and other slow-motion cameras
- Managed team of 7 undergraduate analysts and directed project workflows
- Formed partnership with the Harvard Undergraduate Sports Lab to leverage knowledge of biomechanics

Hyannis Harbor Hawks, Cape Cod Baseball League (Hyannis, MA)

April 2023-August 2023

Head of Data Modeling

- Led team's data modeling efforts, including pitch grading, xwOBA, and xWhiff machine learning models
- Built user-friendly dashboards for individualized hitting metrics for the team's position players and hitting coaches
- Assisted in roster management decision making, including recruiting players, and making recommendations to the General Manager on player transactions

Major League Baseball (New York, NY)

June 2022-August 2022

Baseball Operations Intern (On Field Strategy)

- Analyzed data from minor league stadiums regarding the ABS Challenge system, shift restrictions, and other experimental rules using R and SQL
- Competed in a mock arbitration hearing and delivered the rebuttal presentation on behalf of a MLB team

Qualifications and Capabilities

- **Data Science Skills:** R, Python, SQL, Git, Docker, Shiny, Streamlit
- **Baseball Technology:** TruMedia, Trackman, eBIS, PIA+, Edgertonic, KinaTrax