Luke Hamm

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Education

Wheaton College   Graduated May 2025

- *B.S. in Applied Mathematics (Concentration in Statistics)*
- Relevant Courses: Calculus I–IV, Linear Algebra, Differential Equations, Probability Theory, Probability and Statistical Analysis, Visualization for Data Science, Analysis, Applied Machine Learning, Management Information Systems
- NCAA Division III Baseball Player, Team Captain

Work Experience and Projects

P3Works *Project Analyst*   Aug 2025 - Present

- Analyst at a public-finance consulting firm supporting Texas municipalities on developer-backed infrastructure financings (PIDs/TIRZs) and reimbursement programs.
- Built and reviewed financial models to evaluate deal feasibility, tax/assessment impacts, and key risks; partnered with financial advisors to develop debt-service schedules and bond-payment projections.
- Coordinated with engineers, attorneys, and developers to allocate eligible costs, maintain compliance with statutory and governing documents, and support reimbursement/assessment structuring.

Data Resources Ltd. *Baseball Video Analyst*   2023 - 2024

- Collected and analyzed game data for Major League Baseball organizations, delivering insights for player assessment using both qualitative and quantitative methods.

Optimal Pitch Mechanics for Maximising Velocity (Capstone Project)   May 2025

- Built Random-Forest and MARS regression models on $30+$ kinematic variables from Driveline's OpenBiomechanics database; best model (MARS) captured 91% of fastball-velocity variance ($R^2 = 0.91$).
- Partial-dependence analysis pinpointed shoulder and elbow external rotation as the most influential mechanics; a 5–10° adjustment predicts ~0.6–0.9 mph gains.
- Computed optimal ranges for five high-leverage metrics (e.g., elbow energy transfer, torso rotation) to deliver actionable, coach-friendly training targets.

Cincinnati Reds Hackathon Project   February 2024

- Collaborative advanced data analysis working with large data sets of MLB statistics. Used predictive modeling to estimate which pitchers would be better suited in a new role.

Glove Relacing Business   2023 - 2024

- Founder of a business offering baseball glove relacing and conditioning services via Facebook Marketplace.

Skills

- Expert Excel Proficiency

- Programming Languages: R, Python, VBA

- Experience with SQL, Tableau, C++, LaTeX, Access, and Power BI

- Proficient at leveraging generative-AI tools for data scraping, rapid code debugging in R/Python, and interpreting model outputs to identify statistically significant features. Extensive experience with Endex, Replit, and ChatGPT Pro with projects. Workplace experience using Harvey AI and Notion.