

## EDUCATION

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**Syracuse University**, School of Information Studies, Syracuse, NY May 2026

**Master of Science**, Applied Data Science, AI Concentration

*Relevant Coursework:* Deep Learning, Applied Machine Learning, Cloud Management, Advanced Big Data Management

**Syracuse University**, David B. Falk College of Sport, Syracuse, NY May 2025

**Bachelor of Science**, Sport Analytics

*Relevant Coursework:* Advanced Python, Data Analysis II, R for Sport Analytics

## PROFESSIONAL EXPERIENCE

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**Data Science Graduate Assistant**, Syracuse Women's Lacrosse, Syracuse, NY September 2025 - Present

- Currently leading weekly meetings with a group of student interns to conduct data analysis projects.
- Recruited, interviewed, and hired students to create an analytics department for the women's lacrosse program.

**Data Science Intern**, Syracuse Women's Lacrosse, Syracuse, NY January 2023 - August 2025

- Proactively developed a proprietary dashboard customized for Syracuse Women's Lacrosse players and coaches for the purpose of assessing player performance, scouting opponents, and mitigating injury.
- Created a Shiny app in R with unique tools and presented to coaching staff and players, integrating feedback.

**Data Science Intern**, Kitman Labs, Remote January 2023 - May 2023

- Analyzed multi-factor inputs such as travel data in combination with injury data and season-level box score statistics to assess the effect of scheduling on team performance.
- Presented findings to Kitman Labs senior staff and documented results in a research paper.

## PROJECTS

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**Proprietary Athlete Management System** June 2025 - January 2026

- Designed and built a custom platform for real users to centralize athlete performance, wellness, and testing data for actionable insights.
- Implemented a PostgreSQL database with a Python (FastAPI) backend to manage and serve data securely.
- Developed an intuitive React (JavaScript) frontend with CSS for responsive, user-friendly dashboards.

**Computer Vision Tracking System** April 2025 - June 2025

- Applied YOLOv8 transfer learning and manually annotated 4,000+ objects (players, referees, goalies) to track lacrosse players in game movements using game footage.
- Achieved 99.5% recall and 99.7% precision, ensuring high accuracy in object detection.

## RESEARCH

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**Senior Thesis** - Used K-means clustering, XGBoost, and multi-output modeling to show the impact of injuries on the careers of women's lacrosse players.

**Market Efficiency & Predictive Analytics Research** - Co-led research project on NBA/WNBA betting strategies and presented findings at the Academy of Economics and Finance Conference in Charleston, SC, in February 2024.

## SKILLS

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**Programming Languages:** SQL, Python, R

**Machine Learning & AI:** PyTorch, TensorFlow, Keras, YOLO

**Cloud:** Azure, AWS

**Other:** Snowflake, PostgreSQL, Excel, Tableau, Power BI