

## EDUCATION

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| <b>Syracuse University</b> , School of Information Studies, Syracuse, NY                                            | May 2026 |
| <b>Master of Science</b> , Applied Data Science, AI Concentration                                                   |          |
| <i>Relevant Coursework:</i> Deep Learning, Applied Machine Learning, Cloud Management, Advanced Big Data Management |          |

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| <b>Syracuse University</b> , David B. Falk College of Sport, Syracuse, NY            | May 2025 |
| <b>Bachelor of Science</b> , Sport Analytics                                         |          |
| <i>Relevant Coursework:</i> Advanced Python, Data Analysis II, R for Sport Analytics |          |

## PROFESSIONAL EXPERIENCE

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| <b>Data Science Graduate Assistant</b> , 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.                                                                                         |                            |
| <b>Data Science Intern</b> , 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.                                                                                          |                            |
| <b>Data Science Intern</b> , 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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| <b>Proprietary Athlete Management System</b>                                                                                                                          | 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.                                                               |                          |
| <b>Computer Vision Tracking System</b>                                                                                                                                | 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