

RYAN T. SPENCER

Data Science & Programming | Crystal Lake, IL

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EDUCATION

Crystal Lake Central High School — Crystal Lake, IL
High School Diploma, Expected May 2026
GPA: 4.75 / 4.0 (Weighted) | **ACT:** 36

Relevant Coursework:

AP Computer Science Principles, AP Computer Science A, AP Calculus BC, DC Calculus III, AP Physics C, AP Economics, DC Advanced Mobile App Development

EXPERIENCE

Algoverse AI — Student Researcher
Summer 2025

- Co-authored “*GamiBench: Evaluating Spatial Reasoning and 2D-to-3D Planning Capabilities of Multimodal Large Language Models with Origami Folding Tasks*”
- Built and curated a dataset of 300+ origami folding sequences; evaluated state-of-the-art MLLMs
- Paper accepted to **FrontierIR & NeusymBridge Workshops** and **LMReasoning Bridge @ AAAI 2026**
- Soon to be published in a new chapter of the **Springer-Nature Academic Journal**

Teacher Assistant — Mobile App Development
Crystal Lake Central High School

- Led workshops on Swift, HTML, and project structure for **20+** students
 - Mentored peers and reviewed student projects
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TECHNICAL PROJECTS

ECG Diagnostic Machine Learning Model — Veritas AI (*Summer 2024*)

- Built a logistic regression model to classify **13 cardiac irregularities** with **~90%** accuracy
- Cleaned and processed open-source ECG datasets
- Applied PCA, grid search, and model evaluation techniques using Python and scikit-learn

Predictive Soccer Analytics — Independent (*Winter 2025*)

- Developed a machine learning–based predictive model in Python to estimate match outcomes with **~60%** accuracy using historical soccer data
 - Engineered features like expected goals (xG), expected goals against (xGA), and rolling performance metrics
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SKILLS

Programming & Tools: Java, Python, scikit-learn, Pandas, Matplotlib, HTML, CSS, JavaScript, Swift
Concepts: Machine Learning, Data Analytics, Feature Engineering, Model Evaluation