Ricardo Reyes Carmona

Matthews, North Carolina

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Professional Summary

Datadriven mathematics senior at Duke University with strong interests in number theory, topology and sports analytics. Experienced in applying numerical analysis, machine learning and statistical modeling to derive actionable insights for business and athletic applications. Demonstrated success developing generative AI tools at Visa, building pricing models for construction, and assisting teaching in numerical analysis. Former athlete with leadership and teamwork experience, seeking to leverage mathematical rigor and data skills in innovative analytic roles.

Education

Duke University, Durham, NC   *Expected Graduation: May 2026*
Bachelor of Science in Mathematics; Minor in Computer Science
Relevant coursework: Probability & Statistics, Linear Algebra, Algorithms, Data Structures, Financial Mathematics, Machine Learning, Differential Equations, Real Analysis, Numerical Analysis, Model Development

MIT Professional Education, Online   Summer 2024
Professional Certificate in Data Analytics within AI and Machine Learning

North Carolina School of Science and Mathematics, Durham, NC   2020–2022
Weddington High School, Matthews, NC   2018–2022

Skills

Python, R, C++, LaTeX; Data Analysis & Visualization; Statistical & Numerical Modeling; Machine Learning & Optimization; Algorithms & Software (Excel, Tableau, Git); Communication & Teamwork; Project Management; Languages: English (Fluent), Spanish (Fluent), French (Professional), Italian (Professional)

Experience

Teacher Assistant and Grader for Numerical Analysis   *Jan 2026 – May 2026*
Duke University, Durham, NC

- Assisted teaching and grading for MATH 361S (Mathematical Numerical Analysis), covering linear systems, nonlinear equations, optimization, numerical integration, differential equations, simulation of dynamical systems and error analysis.
- Held office hours and supported students with numerical techniques and coding assignments.

Data Science Intern – VCA (Visa Consulting & Analytics)   *May 2025 – Aug 2025*
Visa Inc., Miami, FL

- Developed generative AI tools integrating large language models with Tableau dashboards for realtime business insights.
- Collaborated with crossfunctional teams to deliver scalable analytics solutions for Visa clients.

Data Scientist – Quantitative Model Development   *Jun 2023 – Aug 2023*
SIMAR Construction, Matthews, NC

- Built priceestimation models using R and Python for a subcontractor, improving cost estimation accuracy.
- Conducted data cleaning and visualization to enhance decisionmaking and workflow efficiency.

Data Analyst Ambassador   *May 2023 – Dec 2023*
Sidechat, Duke University, Durham, NC

- Built predictive models using R and Python to analyze user engagement and identify growth opportunities.
- Presented insights to stakeholders, influencing product development strategies.

Mathematician – Research Assistant   *Jun 2021 – Jul 2021*
Duke University, Durham, NC

- Researched RSA cryptography under Professor Kirsten Wickelgren using Sage and published findings on prime number applications in cryptographic algorithms.

Research Analyst   *Oct 2020 – Apr 2021*
The Actuarial Foundation (Modeling the Future Challenge), Online

- Analyzed flood risks in North Carolina counties using machinelearning models (KNN, Random Forest, CART) and developed mitigation strategies, achieving a Top 10 placement out of 156 teams.