

# Xavier Evans

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## EDUCATION

### Georgia Institute of Technology

Aug. 2024 – May 2027

*Bachelor of Science in Mathematics, Bachelor of Science in Computer Science, GPA: 3.80*

Atlanta, GA

## TECHNICAL INVOLVEMENT

### Georgia Tech Data Science Club

Aug. 2024 – Present

- Gain hands-on experience with foundational data science tools including Python, Pandas, and Jupyter Notebooks.
- Participate in beginner workshops on data cleaning, exploratory data analysis (EDA), and basic visualization.
- Develop early exposure to machine learning concepts such as regression and classification through project-based learning.

### Mathematical Foundations of Data Science

Aug. 2025 – Dec. 2025

- Learned classical data regression and classification techniques including logistic regression, KNNs, and QDA.
- Explored nonlinear and machine learning techniques including random forests, SVMs, and neural networks.
- Applied convolutional neural networks and dimension reduction to classify land use from satellite imagery.

### Shape Machine

Aug. 2025 – Present

- Use NumPy to build classes representing ellipses as vectors and handle their interactions.
- Work with multi-application project in GitHub and documented changes made.
- Communicate with team members to set deadlines, share ideas, and develop biweekly progress reports.

## QUANTITATIVE & ANALYTICAL FOUNDATIONS

- Probability Theory: Statistical inference and distributions - applicable to performance analysis and forecasting.
- Linear Algebra (Advanced): Matrix operations, vector spaces, and eigenvalues - relevant to data transformation and modeling.
- Real Analysis I: Logic and proof-based problem-solving - strengthens structured data interpretation.
- Computer Organization & Programming: Explored hardware-level computing and data processing efficiency.
- Systems & Networks: Analyzed operating system processes and explored the foundations of computer networks.
- Algorithm Design: Applied logic-based problem-solving to parse data.

**Programming Languages:** Python, Java, C, Assembly

## WORK EXPERIENCE

### Grader - Math

Aug. 2025 – Present

*Georgia Institute of Technology*

Atlanta, GA

- Assess student work on a case-by-case basis, giving individual feedback on each assignment.
- Communicate rubric changes and grading policy among grading team.
- Follow deadlines and rubrics effectively, maintaining timeliness and fairness.

### Independent Tutoring - Math and Sciences

Aug. 2022 – May 2024

*Self-Employed*

Cumming, GA

- Provided individualized tutoring in high school-level mathematics and science, including Algebra, Pre-Calculus, Chemistry, and Physics.
- Adapted complex STEM concepts into clear, accessible explanations, improving student performance and confidence.
- Monitored student progress and adjusted strategies based on observed trends, reinforcing a data-driven approach to learning.
- Developed strong interpersonal and communication skills through regular parent updates and tailored support strategies.
- Managed scheduling and session planning independently, demonstrating responsibility and time management.

**Summer Camp Counselor**

June 2021 – June 2023

*Cumming Martial Arts**Cumming, GA*

- Supervised and mentored children in a structured, high-energy camp environment blending martial arts and enrichment.
- Coordinated daily programming and led a team of junior counselors, ensuring a safe and organized experience.
- Built communication, leadership, and time management skills in a dynamic group setting.

**COMMUNITY ENGAGEMENT**

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**Georgia Tech Drumline**

Aug. 2024 – Present

*Georgia Tech Marching Band**Atlanta, GA*

- Participate in game day traditions and foster community engagement through on and off campus events year-round.

**Battery Captain**

Aug. 2022 – Mar. 2024

*Pride of the West Marching Band**Cumming, GA*

- Led percussion section through rehearsals and competitions; organized team bonding and academic support initiatives.

**Women's Self Defense Seminar**

Nov. 2020 – Nov. 2024

*Cumming Martial Arts**Cumming, GA*

- Taught practical self-defense techniques and coordinated small-group drills for diverse age groups.

**Mentoring Program**

Aug. 2021 – May 2024

*Cumming Martial Arts**Cumming, GA*

- Guided students through academic and personal challenges; created a positive, inclusive environment through activity-based learning.

**HONORS AND DISTINCTIONS**

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- Dean's List (Fall 2024 – Present)
- Governor's Honors Program Finalist - Mathematics
- National Merit Commended Scholar
- Inaugural All-State Percussion Ensemble

**ADDITIONAL SKILLS AND INTERESTS**

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**Languages:** English**Arts:** Music Composition, Percussive Arts, Martial Arts