

Education

- Georgia Institute of Technology

Distance Computer Science Dual Enrollment

Courses: CS 1301

Atlanta, GA

Fall 2025
- North Forsyth High School

(GPA: 4.32)

AP Courses: CSA, World History, Environmental Science, US History, Chemistry, English Language, Statistics, Precalculus

Activities: DECA, FBLA (VP of Community Service), STUCO, Educo (VP of Community Service), Squash (ACS)

Cumming, GA

Aug. 2024 - May. 2027
- The McCallie School

(GPA 4.3)

AP Courses: AP CSP

Chattanooga, TN

Aug. 2023 - May. 2024

Leadership/Experience

- Educo Tutoring — VP of Community Service

May 2025 – Present

Coordinating tutoring program at NFMS, managing scheduling and mentor matching for middle school students.

Delivered 20+ hours of chemistry tutoring, improving student understanding and performance.
- FBLA North Forsyth High School — VP of Community Service

May 2025 – Present

Organized chapter events and led service projects including School Supply Drive, Recruitment Drive, and T-Shirt Design.

Projects

- MENTICS — AI College Planning Platform

Jun 2025 – Present

Engineered a full-stack Flask web app with an SQLite database to deliver personalized test prep plans and college roadmaps.

Integrated the Google Gemini API for adaptive AI-driven guidance and built a chatbot for real-time mentorship support.

Designed a responsive frontend with HTML, Tailwind CSS, JavaScript, and ApexCharts to track progress visually.

Implemented secure authentication with both standard registration and Google OAuth 2.0 sign-in options.
- SafeRoute — Hack Forsyth Hackathon Project

Sep 2025

Built a WWII-themed civilian safety simulation in 5.5 hours using Python, Tkinter, OpenStreetMap, and OSRM routing.

Designed interactive UI to simulate danger zones and evacuation routes, emphasizing rapid prototyping and API integration.

Presented the project's technical architecture and demonstrated a functional prototype to a panel of hackathon judges.
- Trend Death Simulation Using Conway's Game of Life

Aug 2025

Modeled social media trend lifecycles by adapting Conway's Game of Life in Python with Tkinter and Matplotlib for interaction.
- Content-Based ML Recommendation Engine (Anime)

Jul 2025

Built a content-based recommendation engine using TF-IDF, Jaccard Similarity, and an Autoencoder neural network model.

Implemented custom heuristics to filter sequels and spin-offs, improving the diversity and novelty of recommendations.
- Machine Learning for Student Stress Prediction

Jul 2025

Engineered an ML pipeline achieving ~90% accuracy in predicting student stress using SVM, Random Forest, and MLP models..

Used feature importance analysis to identify key stress factors, highlighting the model's potential in student wellness apps.

Skills

- Languages: Python, Java, JavaScript (ES6) — experience in both academic projects and personal applications.
- Web / Full-Stack: HTML, CSS, Tailwind CSS, Flask, SQLite, GitHub — practiced in end-to-end app building.
- Data & AI: Machine Learning, Deep Learning, TensorFlow/Keras, Scikit-learn, Pandas, NumPy, Matplotlib, Seaborn
- Developer Tools & Platforms: APIs, REST, OAuth 2.0, ApexCharts, Tkinter, Threading, Version Control

Certifications and Awards

- IT Specialist – Software Development, Certiport / Pearson VUE (Apr 2025) — Certified in programming logic, data handling, and software
- 1st Place, Geometry Division, 2024 TMTA Regional Contest – Recognized for advanced mathematical reasoning and problem-solving ability.
- GA FBLA Region Leadership Competition – 3rd and 6th Place – Achieved top placements in business presentation and business procedures.
- Allison Memorial Geometry Award Recipient – Awarded for consistent achievement and excellence in high school geometry coursework.
- Dr. T.E.P. Woods Award for Academic Excellence – Awarded for consistent achievement and excellence in high school geometry coursework.
- Michaels-Dickson Scholar – \$28,000 Merit Scholarship – The McCallie School – Selected for strong academics, leadership, and character.
- GA DECA State Conference — 13th Place — Wrote and presented a business manual for Unify, an app concept to connect people.