



Rushil Mahadevu

Student Researcher

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Summary

Driven high school developer and researcher building at the intersection of full-stack engineering and biomedical technology. Experienced in designing verifiable LLM systems, machine learning pipelines, and production-grade web platforms. Recognized for a strong approach to tackling complex, real-world problems through independent research.

Education

Sage Ridge School

College Prep 10th
2515 Crossbow Ct, Reno, NV 89511 • 2021 - Present

- **GPA:** 4.0 (Unweighted)
- **Honors:** Head of School's List (All years), Pillar Awards for Scholarship & Respect.
- **Key Coursework:** AP Computer Science A, AP Computer Science Principles, AP Precalculus, AP World History, Honors Biology.

Truckee Meadows Community College

Biological Anthropology Spring 2026

- Relevant Coursework: Biological Anthropology (ANTH 102) & Biological Anthropology Lab (ANTH 110L).
- Key Skills: Comparative Primate Anatomy, Human Evolution, Genetics, and Osteology.

Johns Hopkins University

Biomedical Engineering Innovation (BMEI) June 2026 – July 2026

- Selected for a competitive college-level engineering course focused on the application of engineering principles to the human body.
- Coursework includes modeling biological systems, analyzing human health data, and designing healthcare solutions.
- *Expected completion with university credit.*

Experience

Kumon Math and Reading Center

Teaching Assistant 1111 Steamboat Pkwy Suite# 400, Reno, NV 89521
June 2024 - Present

- Deliver personalized math and reading instruction, focusing on the Kumon Method of self-learning and mastery.
- Track student progress and provide feedback to improve accuracy and confidence in advanced mathematics.

Projects

Scorpio: Verifiable Physics Tutoring LMS

November 2025 - Present

- Developed an AI-powered physics LMS with research-grade tutoring and immersive learning tools designed to foster breakthrough understanding. Submitted to the 2026 Davidson Fellows Scholarship.
- Engineered the system to provide accurate, step-by-step tutoring while maintaining high reliability in scientific outputs.

NFTTruth: AI-Powered NFT Authenticity Detection

June 2025 - August 2025

- Built an AI-powered fraud detection system for NFT collections using Python and FastAPI.
- Achieved 95%+ confidence ratings through ML by analyzing metadata, social signals, and transaction patterns.

Volunteer

The Discovery | STEM Education & Operations Volunteer

Summer 2025 - Present

- Dedicated 75+ volunteer hours to developing and facilitating interactive STEM curriculum, fostering a hands-on learning environment for diverse student groups.

American Red Cross | Regional Health & Safety Volunteer

February 2026 - Present

- Manage volunteer profiles and support onboarding logistics for various events across the Northern Nevada region.

Skills

Programming

Python, Typescript, Javascript, Java, HTML/CSS

Scientific Research

Machine Learning, Statistical Modeling, Data Analysis, Experimental Design, Technical Writing

Professional & Leadership

Systems Thinking, Public Speaking, Mentoring, Scientific Method, Critical Thinking

Awards

Valedictorian Honors

2025

Awarded for ranking 1st in AP CSP, Honors Algebra II, and World History.

National Honor Society

2025

Grand Prize Winner, Sciventure 2026 (Functional Sustainability)

University of Nevada, Reno & The Discovery

- Engineered and executed a comparative study on the efficacy of natural fiber-based sanitary products. Analyzed product performance using standardized absorbency testing and qualitative consumer survey data.
- Presented findings on sustainable material alternatives to a panel of University of Nevada, Reno faculty and industry experts.

Kumon Mathematics Platinum Award

2014-2022

6x Recipient for performing years above grade level (Platinum Award)

President's Education Award for Academic Excellence

2019, 2021

World Cube Association

2024

Ranked speedsolver with an 18.11s personal record.

Languages

Spanish – Intermediate

Interests

Extracurricular Activities

Debate (Senior Level NSDA), Skiing, Cross-Country, Track & Field