

RAM CHITTI

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Education

Harmony School of Innovation

High School Diploma (Expected)

Dallas, TX

Aug 2025 – May 2029

Experience

Research Intern

Dr. Talaty's Biomechanics Lab

Remote

Oct 2025 – Present

- Applied computational biomechanics methods including musculoskeletal modeling and movement simulation using OpenSim.
- Conducted structured literature reviews and simulation-based analyses to support ongoing research.
- Processed, analyzed, and visualized biomechanical datasets using Python.

HealthTech Developer – R&D

Faculty-Mentored Project

Remote

Sep 2025 – Present

- Developing a diabetes management application with emphasis on UI design and data workflow architecture.
- Performed market and user research to guide feature prioritization and product decisions.

Independent Researcher

Cross-Cultural Mental Health Study

Dallas, TX

Sep 2025 – Present

- Applied machine learning techniques to analyze multi-source mental health datasets.
- Executed data cleaning, feature engineering, model development, and visualization pipelines.
- Designed research methodology through targeted literature review and statistical validation.

Software Development Lead Intern

SlatePath LLC

Dallas, TX

Jun 2025 – Aug 2025

- Led full-stack development using Next.js, Tailwind CSS, and Supabase; managed authentication, session state, and secure database design.
- Integrated AI-powered features for intelligent matching, multimodal analysis, and automated evaluation workflows.
- Built scalable REST APIs with FastAPI and resolved security issues including CORS and access control.

Activities

Debate Club

Harmony School of Innovation

Dallas, TX

Sep 2025 – Present

- Competed in inter-school debates using evidence-based reasoning and structured argumentation.

Drone Club

Harmony School of Innovation

Dallas, TX

Sep 2025 – Present

- Developed Python scripts for autonomous drone control and iterated through live flight testing to improve reliability.

Robotics Club (First Tech Challenge)

Harmony School of Innovation

Dallas, TX

Sep 2025 – Present

- Contributed to team portfolio and website development using Next.js.

Red Cross Youth IT Team - Power BI

American Red Cross – North Texas

Dallas, TX

Jul 2025 – Present

- Designed Power BI dashboards to support data-driven decision making and selected to serve as co-lead for a future hackathon.

Richardson Youth Teen Advisory Board

City of Richardson

Richardson, TX

Aug 2025 – Present

- Advised on youth-focused library initiatives and supported community events.

Honors & Certifications

Annual Science Fair – 1st Place

Harmony School of Innovation

Jan 2026

- Awarded for scientific rigor and end-to-end technical pipeline in behavioral machine learning research and qualified for the Regional Dallas Science Fair.

National Honor Society

Harmony School of Innovation

Sep 2025 – Present

All A Honor Roll

Harmony School of Innovation

Aug 2025 – Present

Certifications & Coursework

Harmony School of Innovation

Ongoing

- Pre-Calculus, Biology, Computer Science, Business Launchpad
- CPR Certified

Research & Technical Skills

Programming & Data

- Python, R, scikit-learn, PyTorch
- Flask, React, SQL, JavaScript, HTML/CSS
- Data cleaning, statistical analysis, visualization, computational modeling

Tools & Research Methods

- Git, Docker, Jupyter, OpenSim
- Experimental design, literature review, project workflow management