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EDUCATION

Westwood High School, Austin, TX

Class of 2026

GPA: 4.0/4.0 (unweighted)

Selected coursework

School: AP CS Principles, AP CS A, CS 3, IB CS HL, Calculus BC, Multivariate Calculus, AP Statistics

Coursera: Ordered Data Structures (UIUC), Object-Oriented Data Structures (UIUC), Supervised Machine Learning (Stanford)

Test scores

PSAT: 1500/1520 (M: 760, R: 740), October '24

SAT: 1590/1600 (M: 800, R: 790), August '24

KEY SKILLS

- **Programming Languages:** Proficient in C++, Java, Javascript, Python
- **Machine learning frameworks:** Proficient in PyTorch, TensorFlow
- **Extracurricular interests:** Chess, Cricket, Piano, Soccer
- Fluent in English and Spanish

SELECTED HONORS & AWARDS

- **Regeneron Science Talent Search Scholar:** Top 300 out of 2600+ applicants (2026)
- **USA Mathematics Olympiad (USAMO):** Bronze Medal Winner (2025)
- **USA Junior Mathematics Olympiad (USAJMO):** Two-time Honorable Mention (2023 & 2024)
- **USA Computing Olympiad (USACO):** Silver competitor (2022-2024)
- **American Invitational Mathematics Examination (AIME):** Five-time qualifier (2021-2025)
- **AMC 12 Perfect Score** (2025)
- **AMC 10 Distinguished Honor Roll** (2022 & 2023)
- **Texas A&M High-School Math Contest:** 4th place in the open round (2024)
- **Presidential Volunteer Service Award:** Bronze award (2024)
- **ABRSM Level 3 Certificate in Music Perf.:** Passed Grade 8 Piano Performance exam with merit (2025)
- **Southwest Class Chess Championships:** First place winner in Class D (2023)

AMOGH AKELLA

PROFESSIONAL EXPERIENCE

MIT PRIMES-USA Research Scholar

Massachusetts Institute of Technology, Jan 2025 - Present

- Selected for the math research track of PRIMES-USA through a competitive process
- Conducting independent research in extremal combinatorics, graph theory, and algorithms under a graduate student mentor
- Manuscript available at arxiv.org/abs/2509.23511
- Delivered a talk at the [2026 Joint Mathematics Meetings](#)

Paid Summer Intern

Neural AI team, Relational AI, May 2025 - Present

- Wrote code integrating Selenium, OCR & Claude to scrape unstructured, multimedia sources and generate summaries
- Used my code to summarize 2000+ works in ICLR & ICML and integrated the summaries with RAI's knowledge base

Research Intern, Visual Informatics Lab

ECE Department, UT Austin, May 2024 - Present

- Collaborated with graduate students under the guidance of Prof. Atlas Wang on Artificial Intelligence for Math (AI4Math) research, developing a light-weight AI that can reliably solve competition math problems
- Published a single-authored research paper at [AICCONF 2025](#); manuscript available at arxiv.org/abs/2411.00042

Research Intern, Autonomous Mobile Robotics Laboratory

CS Department, UT Austin, Summer 2023

- Worked on improving datasets for the [CODa](#) project, to create a 3D map of the UT Austin campus for robot navigation
- Utilized Python to develop algorithms that generated accurate 3D maps from noisy data

LEADERSHIP ACTIVITIES

Co-head of Problem Development

INTEGIRLS, May 2024 - Present

- Led the creation of problems for the INTEGIRLS tests
- Created guidelines for problem writers and test-solvers
- Taught new problem writers how to write effective problems

MATHCOUNTS Head Coach

Canyon Vista Middle School, Austin, TX, August 2024 - Present

- Formulated a comprehensive curriculum to maximize students' success in the MATHCOUNTS competition
- Assisted 12+ students to qualify for the Texas state competition

Coach for Math Olympiads for Elem. and Middle Schools

Laurel Mountain Elem. School, Austin, TX, August 2023 - Present

- Coached students for the national MOEMS competition
- Supplemented school curricula with advanced math content