

# William Liu

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Motivated high school junior with strong academic performance, problem-solving and leadership experience, and a passion for STEM fields. Enjoys problem-solving, creative thinking, and making new things. Aspiring to become a scientist or engineer to help create a better shared future.

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## Education

**Ronald Reagan High School** - 11th grade, expected graduation May 2027

- **GPA:** 99.1/100 unweighted, 106.0/100 weighted (first 4 HS semesters)
- **Test Scores:** 1500/1520, PSAT/NMSQT; 5, AIME (qualified as a top ~5% AMC participant)

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## Experience

### Reagan UIL Academics Team

*Math Team Captain (August 2024 - Present), Science/Computer Science team member, Webmaster (January 2024 - Present)*

- Competed in University Interscholastic League (UIL) academic contests, the premier academic competition program for Texas high schools, and consistently earned individual medals in STEM events
- Helped team achieve many top placements and win multiple championships at district and regional levels
- Taught advanced STEM topics - including math, chemistry, physics, and biology - to over 20 other team members as a top scorer

### San Antonio Math Circle

*Co-Founder (August 2024 - Present)*

- Founded and led a group for motivated students to explore advanced math topics; now over a dozen members
- Led discussions exploring higher-level math not usually taught in schools such as advanced algebra, combinatorics, number theory, and geometry
- Competed in and prepared Circle members for math contests like AMC, AIME, and Mathcounts

### Reagan Mu Alpha Theta

*Committee Member (April 2025 - Present), Inducted Member (October 2023 - Present)*

- Organized and coordinated meetings and events for school chapter of national math honor society
- Developing and implementing custom software to automate administrative tasks

### Reagan Orchestra

*Librarian (May 2025 - Present), Violinist (August 2023 - Present)*

- Participated in school orchestra for 3 years; auditioned into varsity orchestra (Chamber Orchestra)
- Managed copying and distributing music as a Librarian

### Reagan Chinese Culture Club

*President (May 2025 - Present), Secretary (August 2024 - May 2025)*

- As Secretary, was responsible for preparing for club meetings, taking attendance, making announcements to members, and posting content to club Instagram page
- Grew club membership by over 200% to 35 members through active recruitment and engaging activities

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## Skills

- **Technical:** Knowledge of AI/ML concepts, experience working with microcontrollers (e.g., functional alarm clock, light-sensitive toys), AutoCAD Certified User
- **Programming Languages:** Python, Java, JavaScript, HTML/CSS, various web development tools, various AI/ML and data processing frameworks (NumPy, Pandas, scikit-learn, TensorFlow, etc.), Matplotlib
- **Other Interests:** playing violin, running, swimming, reading, collecting maps

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## Awards

- American Invitational Mathematics Examination (AIME) Qualifier (2023, 2024): One of ~6,000 HS students nationwide invited, only qualifier from Reagan HS both years, and first freshman ever from Reagan to qualify
- American Mathematics Competitions (AMC) 10 1st Place, Reagan High School (2023, 2024)
- UIL Math State Qualifier (2025): Placed 2nd at Regionals
- UIL Math, Science, and Computer Science Regionals Qualifier (2024, 2025)
- USA Computing Olympiad (USACO) Silver Division
- Student Volunteer Service Award - Gold Level (2025)
- Texas State Solo/Ensemble Qualifier (2024, 2025)