

Warith Rahman

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Education

University of Texas at Austin

B.S. in Computer Science, Planned B.S. in Mathematics

- Coursework: Sequences, Series, and Multivariable Calculus; Discrete Math; Data Structures: Honors

Allen High School

Rank 12 of 1654, AP Scholar w/ Distinction

- Captain for Academic UIL Team and Science Bowl Team

Experience

Texas Math and Science Coaches' Association (TMSCA)

Chief Physics Test Writer

- Develop the physics section for 16 annual TMSCA science tests, including the TMSCA State Meet
- Coordinate with UIL Physics Director and UIL Liaison to ensure alignment to University Interscholastic League standards and rigorous content

Outlier

Artificial Intelligence Tester

- Critique AI responses to improve truthfulness, concision, harmlessness, and user satisfaction
- Enhanced AI responses to mathematical queries to improve LaTeX and accuracy; reformed AI responses in conversation to improve English semantic usage

Mathnasium

Math Instructor

- Mentored groups of 4 students in skills ranging from elementary addition to high school algebra through assessment evaluation and missed question reviews to enhance learning
- Ensured learning productivity by developing daily reflections for student sessions and upholding the cleanliness of the learning center

University of Texas at Dallas

Research Intern

- Worked under Dr. Chris Davis in a Natural Language Processing (NLP) research workshop
- Developed Python scripts using NLTK and BeautifulSoup to conduct linguistic analysis on webpages and articles, including analysis on diction frequency and part of speech

Projects

- **RamenSense (Jun 2022 - May 2024):** Interactive mental math trainer for Allen Number Sense Team, auto-generates realistic practice problems, directly contributed to team state qualification (<https://ramensense.github.io/>)

Skills & Interests

Technical: Proficiency in Java, Python, C++

Language: English fluency, Spanish and Bengali working proficiency

Interests: Software development, AI integration in education, Developing a secure technological world

Accolades

- 4x American Invitational Mathematics Exam (AIME) Qualifier
- 17x University Interscholastic League (UIL) State Qualifier, 5x State Gold, 2024 6A Mathematics and Computer Science State Individual Champion
- Top 20 pre-college US teams at PicoCTF 2024
- 2023 CyberStart America Finalist
- USA Computing Olympiad Silver Division
- 2x Texas A&M Regional Science Bowl Quarterfinalist (2024 captain, 1st in-person appearance)