Warith Rahman

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Education

University of Texas at Austin — Austin, Texas
B.S. in Computer Science, Planned B.S. in Mathematics — Expected Dec 2027
- Coursework: Sequences, Series, and Multivariable Calculus; Discrete Math; Data Structures: <u>Honors</u>
- Orgs: UT Programming Club, Texas ACM, Longhorn Math, UT Tetris Society, Texas Science Bowl

Allen High School — Allen, Texas
Rank 12 of 1654, AP Scholar w/ Distinction — May 2024
- Academic UIL Team and Science Bowl Team Captain

Experience

Longhorn Developers — Austin, Texas
Software Engineer — Sep 2024 - Present
- Co-develop UT Registration Plus: a Google Chrome extension with <u>60,000+ downloads</u> aimed at easing the registration process for UT Austin students

Texas Math and Science Coaches' Association (TMSCA) — Remote (Contract)
Chief Physics Test Writer — Aug 2024 - Present
- Develop the physics section for 16 annual TMSCA science tests, including the <u>TMSCA State Meet</u>
- <u>Coordinate with UIL Physics Director and UIL Liaison</u> to ensure alignment to University Interscholastic League standards and <u>rigorous content</u>

Outlier — Remote (Freelance)
Artificial Intelligence Tester — Jul 2024 - Present
- Critique AI responses to improve truthfulness, concision, harmlessness, and user satisfaction
- Enhanced AI responses to mathematical queries to <u>improve LaTeX and accuracy</u>; reformed AI responses in conversation to improve English semantic usage

Mathnasium — Allen, Texas
Math Instructor — Apr 2024 - Aug 2024
- Mentored groups of 4 students in skills ranging from <u>elementary addition to high school algebra</u> 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 — Hybrid; Richardson, Texas
Research Intern — Jun 2023 - Jul 2023
- Worked under Dr. Chris Davis in a <u>Natural Language Processing (NLP)</u> research workshop
- Developed Python scripts using <u>NLTK and BeautifulSoup</u> 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 <u>contributed to team state qualification</u>
  (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)