WARITH RAHMAN

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EDUCATION

University of Texas at Austin
B.S. in Computer Science, B.S. in Mathematics   Expected Dec 2027
  o Courses: Linear Algebra, Probability I; Discrete Math, Data Structures: Honors, Computer Architecture: Honors
  o Activities: Texas Science Bowl (Co-Founder & Data Coordinator), UT Programming Club, Longhorn Math
Allen High School   May 2024
  o Achievements: Rank 12 of 1654, AP Scholar w/ Distinction (16 AP and 2 IB courses)

EXPERIENCE

Freshman Research Initiative   Austin, Texas
Undergraduate Researcher   Jan 2025 - Present
  o Conducting research under Dr. Joseph Dubie in the EvoDevOmics FRI stream, focusing on the influence of gene expression in the evolution of aquatic animals.

Longhorn Developers   Austin, Texas
Software Engineer   Sep 2024 - Present
  o Collaborating in developing a Google Chrome extension with over 60,000 downloads, improving the registration process for UT Austin students
  o Engaging in scripting processes with TypeScript to automate and streamline functionalities within the extension, contributing to efficient software updates.
  o Implementing web application improvements based on feedback, applying core web development and computer science skills.

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

Mathnasium   Allen, Texas
Math Instructor   Apr 2024 - Aug 2024
  o 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
  o Ensured learning productivity by developing daily reflections for student sessions and upholding the cleanliness of the learning center

University of Texas at Dallas   Richardson, Texas
Research Intern   Summer 2023
  o Worked under Dr. Chris Davis in a Natural Language Processing (NLP) research workshop
  o 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
  o Interactive mental math trainer for Allen Number Sense Team
  o Auto-generates realistic practice problems
  o Mentored team for state qualification

ACHIEVEMENTS

  o **4x** American Invitational Mathematics Exam (AIME) Qualifier
  o **17x** University Interscholastic League (UIL) State (**5x** Gold, **2024 6A Math and CS State Individual Champion**)
  o **Top 20** pre-college US teams at PicoCTF 2024
  o **2x** Texas A&M Regional Science Bowl **Quarterfinalist** (**2024 captain** @ 1st in-person appearance)
  o Inaugural UT Austin Integration Bee **Quarterfinalist**
  o **3rd Place** Energy AI Hackathon 2025 (hosted by UT Petroleum and Geosystems Engineering Dept.)

ADDITIONAL INFO

Technical Skills: Java, C++, Python (Numpy, Pandas, Sklearn, NLTK)
Language: English fluency, Spanish working proficiency, Bengali working proficiency
Interests: Cryptography, Regression Analytics, Linguistic Evolution, Running, Music