WARITH RAHMAN

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Summary

I am a computer science student aspiring to go into the fields of software, data analytics, or cybersecurity. In software, I have co-developed a Google Chrome extension streamlining the UT Austin registration process with over 60,000 downloads and have designed a mental math trainer for s state tournament. In data analytics, I have conducted Python research in linguistic analysis. In cybersecurity, I have partaken in numerous competitions and have specialized in cryptographic problems. I am excited to further pursue these fields through internship and research programs, as I aspire to contribute to innovative solutions and a more technologically active world.

Education

University of Texas at Austin
B.S., Computer Science, 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 (Member), Longhorn Math (Member)

Allen High School   May 2024
  o Achievements: Rank 12 of 1654, AP Scholar w/ Distinction (16 AP and 2 IB courses)

Work Experience

Freshman Research Initiative   Austin, Texas
Undergraduate Researcher   Jan 2025 - Present
  o Conducting research under Dr. Becca Young in the EvoDevOmics FRI stream, focusing on the influence of gene expression on frog development.

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
  o

Projects

RamenSense   Jun 2022 - May 2024
- Interactive mental math trainer for Allen Number Sense Team
- Auto-generates realistic practice problems
- Mentored team for state qualification

Skills

Technical: Java, C++, Python (Numpy, Requests, NLTK)
Language: English fluency, Spanish working proficiency, Bengali working proficiency

Achievements

- 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**
- 2x **Texas A&M Regional Science Bowl** Quarterfinalist (**2024 captain @ 1st in-person appearance**)
- Inaugural **UT Austin Integration Bee** Quarterfinalist