

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

- Courses: Calculus 2+3, Linear Algebra, Probability I; Discrete Math, Data Structures: Honors, Computer Architecture

Allen High School

May 2024

- Achievements: Rank 12 of 1654, AP Scholar w/ Distinction

Work Experience

Freshman Research Initiative

Austin, Texas

Undergraduate Researcher

Jan 2024 - Present

- Conducted 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

- Collaborated in developing a Google Chrome extension with over 60,000 downloads, improving the registration process for UT Austin students
- Engaged in scripting processes with TypeScript to automate and streamline functionalities within the extension, contributing to efficient software updates.
- Implemented 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

- 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

Mathnasium

Allen, Texas

Math Instructor

Apr 2024 - Aug 2024

- 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

Richardson, Texas

Research Intern

Summer 2023

- 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
- Mentored team for state qualification

Skills

Technical: Java, Python, C++, SQL, Web Applications, Object-Oriented Programming

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