

# Warith Rahman

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## Summary

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Motivated UT Austin undergraduate double majoring in Computer Science and Mathematics, with experience in software development, cybersecurity, and genomics research. Strong problem-solver with skills in Python, C++, Java, and data analysis tools like R and Pandas. Effective communicator and team player, recognized for initiative, adaptability, and eagerness to learn. Interests span into cryptography algorithms and regression analysis.

## Education

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**University of Texas at Austin**, B.S. Computer Science, B.S. Mathematics Aug 2024 - Dec 2027

- **Coursework:** Data Structures (H), Computer Architecture (H); Linear Algebra, Probability I
- **Activities:** Texas Science Bowl (Co-Founder), UT Programming Club (Logistics), Longhorn Math

## Experience

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**Incoming Cybersecurity Student**, Strauss Center – Austin, TX Aug 2025 - Present

- Selected for a two-semester practicum course, gaining real-world experience in vulnerability assessment

**Lead Physics Test Writer**, Texas Math and Science Coaches' Association – Remote Aug 2024 - Present

- Author physics sections for 16 annual TMSCA science tests, including the State Meet taken by hundreds of students in contention for over \$25,000 in scholarships
- Coordinate with UIL Physics Director to ensure alignment with UIL and AP Physics standards

**Undergraduate Researcher**, UT Austin – Austin, TX Jan 2025 - May 2025

- Analyzed novel genomic data of sister salamander species under Dr. Joseph Dubie to identify trends in divergent evolution
- Utilized R to process datasets with millions of rows, discovering key protein-coding genes with high differential expression

**Software Developer**, Longhorn Developers – Austin, TX Sep 2024 - Dec 2024

- Contributed to a Google Chrome extension with 60,000+ downloads, utilizing TypeScript automation to streamline UT Austin course registration

## Projects

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**UIL Hub** *Repository Link*

- Developed a full-stack web application with Python Flask, JavaScript, and Tailwind CSS to scrape and display UIL academic competition results from Speechwire, replacing a CLI-based script
- Implemented concurrent threading and dynamic front-end filters (by subject, team/individual, and region) to allow real-time browsing, sorting, and CSV export of scraped data

**Game Theory** *Repository Link*

- Designed and deployed an interactive online card game with TypeScript and Next.js, enabling real-time multiplayer gameplay and scalable hosting via DigitalOcean droplets

## Achievements

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- 3rd Place Energy AI Hackathon 2025 (hosted by UT Petroleum and Geosystems Engineering Dept.)
- Top 20 pre-college US teams at PicoCTF 2024
- 4x American Invitational Mathematics Exam (AIME) Qualifier
- 17x University Interscholastic League (UIL) State (5x Gold, 2024 6A Math and CS State Individual Winner)

## Skills

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Java, C++, Python (Numpy, Sklearn, NLTK, Pandas), R (dplyr, ggplot2), L<sup>A</sup>T<sub>E</sub>X, Microsoft Excel