Warith Rahman

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Education

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, Probabiity I
- **Activities:** Texas Science Bowl (Co-Founder), UT Programming Club (Logistics), Longhorn Math

Experience

Incoming Cybersecurity Student, Strauss Center – Austin, TX   Aug 2025 - Present
- Selected for a two-semester practicum course of about 50 students, where I will learn defense skills and gain 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, streamlining UT Austin course registration
- Maintained TypeScript-based automation features for efficient extension updates

Projects

UIL Hub   *Github Repository*
- 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   *Github Repository*
- 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

- 3rd Place Energy AI Hackathon 2025 (hosted by UT Petroleum and Geosystems Engineering Dept.)
- Inaugural UT Austin Integration Bee Quarterfinalist
- 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)
- 2x Texas A&M Regional Science Bowl Quarterfinalist (2024 captain at 1st in-person appearance)

Additional Information

Skills: Java, C++, Python (Numpy, Pandas, Sklearn, NLTK), R (dplyr, ggplot2), LaTeX, Microsoft Excel

Interests: Cryptography, Regression Analysis, Data Visualization, Game Theory, Running, Music