

Warith Rahman

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EDUCATION

University of Texas at Austin

Austin, TX

Bachelor of Science in Computer Science and Mathematics | GPA: 3.9

May 2027

Relevant Coursework: Computer Architecture (Honors), Data Structures (Honors), Probability I, Linear Algebra

Leadership Experience: Texas Science Bowl (President), UT Programming Contests (Problemsetter)

EXPERIENCE

Undergraduate Researcher

Jan 2025 – May 2025

University of Texas at Austin

Austin, TX

- Led data analysis for a study on divergent evolution in *Eurycea* salamanders under Dr. Joseph Dubie, designed an R pipeline to process and visualize 4M+ genetic data points
- Performed differential expression analysis that identified 20 protein-coding candidate genes, presented results with a 5-member team at the final research showcase

Software Developer

Sep 2024 – Dec 2024

Longhorn Developers

Austin, TX

- Developed features for “UT Registration Plus” (60,000+ downloads) through weekly sprint meetings and collaborative QA, improving extension functionality to ease university registration process
- Refactored schedule table and resources in TypeScript to improve layout clarity, managing progress with a Jira-style Kanban using GitHub Issues and Projects

PROJECTS

K-Pop Release Predictor | *Python (pandas, scikit-learn), Next.js, Tailwind CSS*

- Developed a full-stack machine learning web application to predict K-pop group release patterns within an 8-week accuracy interval
- Engineered automated data collection pipeline using MusicBrainz API to scrape and process release information from 90+ 21st century K-pop artists, implementing duplicate detection and CSV export functionality
- Constructed an interactive Next.js frontend with an interactive timeline, employing API endpoints via Python FastAPI for outputting predictions within 2 seconds

TSB Question App | *Express.js, MongoDB, Tailwind CSS, Render*

- Engineered and launched a full-stack app maintaining secure storage of 900+ tournament questions in MongoDB
- Streamlined workflow by unifying question uploads and automated LaTeX packet generation, using a CSV upload parser to enable cross-team collaboration and reduce compilation time by 100x

UIL Hub | *Python Flask, Node.js, HTML, CSS*

- Built a Flask web app to scrape UIL results from SpeechWire, reducing query time by 10x from original CLI script
- Integrated real-time sorting and multithreading for CSV export filtered across contests, regions, and classifications

Game Theory | *TypeScript, ReactJS, DigitalOcean*

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

ACHIEVEMENTS

Top 300 at DoD Cyber Sentinel CTF 2025

Jun 2025

3rd Place Energy AI Hackathon 2025

Jan 2025

Top 20 Pre-College US teams at PicoCTF 2024

Mar 2024

4x American Invitational Mathematics Exam (AIME) Qualifier

Mar 2024

TECHNICAL SKILLS

Languages: Java, Python, C/C++, SQL (PostgreSQL), JavaScript, TypeScript, HTML/CSS, R, \LaTeX

Frameworks and Tools: Flask, Tailwind CSS, ReactJS, Node.js, Express.js, MongoDB, REST API, Git, Visual Studio, IntelliJ, Docker, Linux, Microsoft Excel, Tableau

Libraries: Pandas, NumPy, Matplotlib, scikit-learn