Nur Mahi

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LinkedIn: Nur Mahi | **Devpost:** Nur Mahi's Portfolio

EDUCATION

University of North Texas   Expected: May 2026

Bachelor of Science- **Computer Science**   **GPA: 3.95**

Relevant Coursework: Data Structures & Algorithms, Software Engineering, Artificial Intelligence, Operating Systems, IT Project Management, System Configuration, Cybersecurity.

TECHNICAL SKILLS

Programming Languages: C#, C++, Java, JavaScript, Python, R, SQL, Perl

Web Design: HTML5, Tailwind CSS, React

Backend: Node.js, PostgreSQL, RESTful APIs

Version Control: Git, GitHub

Data Visualization: Power BI, Tableau

ENGINEERING PROJECTS

Winner, Hack UNT 2024 Engineering Competition (Robotics)   October 2024
- Developed "Bin-Genius" Project, an automated smart waste management system that tracks waste levels and incentivizes responsible disposal behavior.
- Built the project using an ESP32 microcontroller and ultrasonic sensor to collect real-time bin data, transmitted to a Django-based backend via RESTful APIs.

Lead Frontend Developer, Sensa Chef (Designed Cooking App for visually impaired users)   January 2025
- Developed a voice-controlled cooking assistant using Python, Raspberry Pi, ultrasonic sensors, and PostgreSQL to provide real-time, accessible cooking guidance for blind and visually impaired users.
- Designed a user-friendly interface with voice navigation, ChatGPT integration, and features tailored for non-visual interaction, helping users manage cooking tasks safely and independently.

PROFESSIONAL EXPERIENCE

IT Intern, The Great Dakotas Consultancy   June 2025 to Present
- Managed and optimized the company's IT website infrastructure, supporting application integration, data accuracy, and system performance using Git and version control best practices.
- Developed and enhanced responsive frontend components with React.js, JavaScript, and Tailwind CSS, collaborating within an Agile workflow to deliver scalable and maintainable code.

Student Ambassador, University of North Texas   September 2024 to Present
- Provided tech support and led marketing strategies to promote online student programs under the Division of Student Affairs, reaching over 100,000 students via (instagram.com/unt.ose) and other platforms.
- Designed and implemented a Python-based automation system using Microsoft Forms, Excel, and custom scripts to centralize data collection, track attendance, and deliver real-time engagement reports for the team.
- Built and integrated backend APIs using Python and Flask to handle form submissions, process event data, and store records in a MySQL database.

Peer Mentor, University of North Texas   September 2024 to Present
- Provided personalized mentorship, guiding students in career planning, academic success strategies, and skill development for computer science and engineering students.

Research Intern, Texas Woman's University   June to July 2024
- Programmed and optimized Python control scripts for a robotic arm to automate chemical handling tasks in the laboratory, integrating safety protocols and sensor feedback to ensure precision.
- Skilled in operating Differential Scanning Calorimetry (DSC), Particle Analyzer (PA), Fourier-Transform Infrared Spectroscopy (FTIR) and UV-Visible Spectroscopy (UV-Vis).

TRIO Talent Search Ambassador, North Central Texas College   March to May 2024
- Managed the official registration process for almost 8,000 students in the TRIO program, accurately documenting and facilitating smooth program participation.
- Actively engaged with high school and middle school students, organizing and leading field trips in and out of state to expose them to various educational and career opportunities.