Mohammad Hasibur Rahman
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EDUCATION:

University of Texas at Arlington, Arlington TX **CGPA**:3.403
Bachelor of Science in Computer Science *Graduation Date:May 2026*

EXPERIENCE:

Golpo: CA
Software Engineering Intern- Jan 2025 - April 2025

- Enhanced FFmpeg scripts, achieving a 40% reduction in video rendering times.
- Refined AI models, resulting in a 30% decrease in training costs while maintaining over 90% accuracy.
- Evaluated hosting solutions that led to a 25% reduction in operational expenses.

Undergraduate Research Opportunity Program TX
Research Assistant- Jan 2024 - May 2024

- Developed a 3D signal visualization application using Unity, resulting in a 40% increase in interactivity.
- Integrated the application with Meta Quest 3 to facilitate immersive analysis in challenging acoustic environments.
- Improved signal processing accuracy through the implementation of advanced machine learning techniques.

Headstarter AI NY
Software Engineering Fellow- July 2024-Aug 2024

- Developed AI-driven SaaS products utilizing React/Next.js, Firebase, AWS, and OpenAI APIs.
- Enhanced recommendation accuracy by 30% in the Rate My Professor RAG project through the implementation of embeddings and vector databases.
- Achieved over 1,000 user sign-ups within one week by improving user experience and outreach efforts, while actively participating in hackathons and technical preparation to strengthen collaborative skills.

PROJECTS:

FrontierRAG –(Retrieval-Augmented Generation System) *Aug 2024*

- Engineered a RAG system leveraging SambaNova LLMs, improving recommendation accuracy by **40%**.
- Optimized data processing workflows, reducing response times by **50%** for customer queries.
- Boosted conversion rates by **30%** with personalized AI-driven strategies.

MatchX Collaboration System- Oct 2024

- Created a sports collaboration platform using React, Node.js, and MongoDB, improving user accessibility by **40%**.
- Integrated real-time messaging and user authentication with Clerk, enhancing user experience.
- Deployed on Vercel to ensure seamless performance for **500+ users**

TruthLens – (AI-Powered Content & Authentication System) Nov 2024

- Developed a real-time content verification system analyzing **10,000+** web pages and images, increasing user engagement by **40%**.
- Engineered a robust API with FastAPI, reducing response times by **60%,** supporting **500+** simultaneous users.
- Implemented PostgreSQL and Jinja2 Templates, enhancing security and **30%** faster task completion.

TECHNICAL SKILLS:

Languages: Python, Java, C, C++, C#, HTML/CSS, JavaScript, TypeScript, SQL, MATLA.

Tools: Git, MongoDB, SQL, Azure, Jupyter, Vercel, Firebase, AWS, Unity.

Concepts: Full-Stack Development,GenAI,Retrieval-Augmented Generation (RAG),Machine Learning,Computer Vision,Scalable Systems.

ACTIVITIES & LEADERSHIP

Founder & Former-President- Oct 2023-Present

- Led 9 workshops on Machine Learning and Neural Networks with over 25 students each, boosting engagement by 60%.
- Co-organized UTA Datathon Spring 2024 including a deep learning project showcase with SCAI officers.

CERTIFICATIONS & AWARDS

- Student Arlington Conservation Council Scholarship ($1,000)
- A024 Nokia Outstanding Pre-Professional CS ($1,000) — 2024

PUBLICATIONS

- RF-Vision: Object Characterization using Radio Frequency Propagation in Wireless Digital Twin, In IEEE Xplore [Accepted].January 2025
- A Systematic Literature Review on the Application of Artificial Intelligence and Machine Learning in Personalized Medicine: Methodological Advances and Emerging Trends, In SSRN [Accepted]. August 2024
- Speclearn: Spectrum Learning in Shared Band under Extreme Noise Conditions, In IEEE International Symposium on Dynamic Spectrum Access Networks [Accepted].