Md Salman Farse

682-372-6476 | mxf4149@mavs.uta.edu | Portfolio | LinkedIn | GitHub

Education

The University of Texas at Arlington Arlington, Texas
Bachelor of Science in Computer Science Expected Graduation May 2027
Relevant Coursework: DSA, Operating Systems, OOP, Discrete Structures, Calculus III, Computer Architecture

TECHNICAL SKILLS

Languages: Python, C/C++, C#, JavaScript, TypeScript, Kotlin, SQL, NoSQL, HTML/CSS
Frameworks: React, Next.js, Node.js, Express.js, FastAPI, Tailwind CSS, Django, React Native, Flutter
Cloud & Tools: AWS, Azure, Agile, Docker, Databricks, Supabase, Cloudflare, Firebase, Postman, Git
AI/ML: LLMs, LangChain, TensorFlow, OpenCV, OCR, Multimodal AI
Databases: MongoDB, PostgreSQL, SQLite, Microsoft SQL Server

Projects

Doctor.ai | GitHub | Web | *Next.js, Python, FastAPI, LLMs, LangChain, OCR* Dec 2025

- Architected and built a production-scale AI health triage system that converts free-text symptoms into structured medical signals, predicts disease, and enforces non-diagnostic safety constraints.
- Built a multi-agent AI pipeline (NLP → reasoning → OCR → analytics) to interpret lab reports, detect abnormal trends, and generate explainable health guidance.
- Designed a compliance-ready data architecture with secure auth, longitudinal health records, and wearable-driven insights, demonstrating real-world scalability and trust-focused AI design

AiSocial | GitHub | Web | *Next.js, Express, MongoDB, Socket.io, WebRTC, Cloudinary, Hugging Face, Gemini, TensorFlow.js* Oct 2025

- Built AiSocial, a scalable real-time social platform using React.js and Express, featuring dynamic feeds, reactions, messaging, audio/video calling, and secure media workflows backed by MongoDB.
- Engineered advanced AI content pipelines with Gemini, Hugging Face, and TensorFlow.js for image generation/enhancement and emotion-aware auto-captioning via vision + NLP.

ResearcherX | GitHub | *React.js, FastAPI, LangChain, Selenium* Dec 2025

- Built an autonomous AI research system that conducts large-scale web discovery, synthesizes multi-source information, and produces structured, citation-ready research reports.
- Engineered the agent pipeline using Python, FastAPI, LangChain, OpenAI GPT-4, and Selenium, enabling reliable data collection, reasoning, and analysis.
- Developed a React-based interface with real-time progress tracking to support transparent, interactive research workflows.

ShareCare | GitHub | *Flutter, Firebase, FastAPI, MongoDB, AI* Dec 2025

- Built a cross-platform mobile application that connects donors, NGOs, volunteers, and people in need through a real-time, privacy-first donation ecosystem**.**
- Implemented a social-media-style feed, fixed donation points, and offline walk-in support with AI-powered matching, priority scoring, and fairness controls to reduce waste and ensure equitable distribution.

Work Experience

Web Developer Arlington, TX
The University of Texas at Arlington *Nov 2024 – Present*

- Developed and maintained departmental web applications using HTML, CSS, JavaScript, and modern frameworks, supporting platforms used by 1,000+ students and staff.
- Collaborated with cross-functional teams to ship new features and resolve issues, contributing to a 25% improvement in page load performance and overall site reliability.
- Assisted with testing, debugging, documentation, and accessibility updates, helping reduce reported site issues by 30% and improve compliance with web standards.

Leadership Experience

HK Signature Rajshahi, Bangladesh
Founder & CEO *May 2023 - Present*

- Architected and built an AI-powered custom design and order platform, leading both software engineering and AI integration across the full stack to deliver personalized products end to end.
- Led a cross-functional team of 10+ members, driving product vision, technical strategy, and execution, resulting in 60% business growth and a 40% improvement in order fulfillment efficiency through automation and system optimization.