Md Salman Farse

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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
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

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

- Built AiSocial, a scalable real-time social platform using Next.js/React and Node.js/Express, featuring dynamic feeds, reactions, messaging, audio/video calling, and secure media workflows backed by MongoDB.
- Engineered advanced AI content pipelines with OpenAI/Gemini, Hugging Face, and TensorFlow.js for image generation/enhancement and emotion-aware auto-captioning via vision + NLP.
- Designed platform integrity systems leveraging AI media detection (deepfake/AI-generated photo & video) and multi-signal fraud/fake-account risk scoring, while enabling real-time interactions with Socet.io and WebRTC.

Doctor.ai | *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

HK Signature | *React.js, Tailwind CSS, Google OAuth 2.0, Stripe/Razorpay, Gemini Api* Nov 2025

- Built a full-stack e-commerce platform (React/Vite, Node/Express, MongoDB) with Google OAuth/JWT auth, role-based APIs, and a polished UI—users shop collections, manage carts, profile/addresses/avatars, and track orders; admins get dashboards for products, CMS, shipping, and discounts.
- Delivered production-grade foundations: secure password hashing/validation, Cloudinary media pipeline, Stripe-ready payments, and Vite proxy configs for local/prod parity; modular services and environment-driven config keep deployments predictable.
- Developed an AI-powered custom design workflow allowing users to generate personalized clothing designs, preview results in real time, and place orders, with an intelligent pricing engine that dynamically computes cost based on design complexity and attributes.

Interview Expert | *Next.js, Express, MongoDB, Prisma, Gemini 2.5 Flash* Dec 2025

- Built an AI-driven interview preparation platform that generates resume-aware, job-specific mock interviews with adaptive difficulty, simulating real FAANG interview loops using Gemini 2.5 Flash.
- Designed intelligent interview agents that probe resume claims, enforce STAR-based behavioral responses, and deliver multi-dimensional performance feedback with readiness analytics.

Work Experience

Software & AI Engineer

Founder / Independent Projects *Oct 2023 – Present*

- Architected and built, deployed multiple production-grade, AI-powered platforms spanning e-commerce, social media, healthcare, fintech, and developer tools using Next.js, React, Node.js, FastAPI, MongoDB, PostgreSQL, and cloud-native deployments.
- Designed secure, scalable backends with OAuth/JWT authentication, role-based APIs, analytics dashboards, and automated moderation, paired with highly interactive, responsive frontends.
- Built end-to-end AI systems integrating LLMs, LangChain orchestration, OCR pipelines, multimodal image analysis, and intelligent pricing & recommendation engines, transforming unstructured user input into real-time, explainable outputs.

Leadership Experience

HK Signature

Founder & CEO

- Led a team of 10 members to launch and scale a custom, technology-driven e-commerce platform, aligning business, design, and engineering while making 60% business growth reducing customer handling time by 40%.