MOHD SHAYAN

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PROFILE

Versatile **Software Engineer** specializing in **Full-Stack Web Development, DevOps, and Web3**.
Expertise in building scalable microservices, architecting robust infrastructure with Kubernetes/Docker, and developing decentralized applications (dApps) on Solana. Strong foundational knowledge in integrating AI/ML models, fine-tuning LLMs, and deploying autonomous agents.

EDUCATION

Delhi Technological University — New Delhi, India
B.Tech in Mathematics & Computing — *Nov 2022 – May 2026*

Delhi Public School, Mathura Road — New Delhi, India
Senior Secondary Certificate (Class XII) — *2019 – 2021*

Delhi Public School, Mathura Road — New Delhi, India
Secondary Certificate (Class X) — *2007 – 2019*

EXPERIENCE

Machine Learning Intern (Practical Trainee) — July 2025 – Sep 2025
Centre for Railway Information Systems (CRIS) — *New Delhi, India*

- Engineered a conversational AI Chatbot for EPS helpdesk by fine-tuning open-source **LLMs** (Llama/Mistral) using **Hugging Face Transformers**.
- Architected a **RAG (Retrieval-Augmented Generation)** pipeline using **LangChain** and vector databases to reduce model hallucinations.
- Optimized inference latency and implemented context-aware retrieval using **Python** and Oracle Cloud.

Technical Lead & Co-Founder — March 2024 – Present
SocialSure Private Limited — *New Delhi, India / Remote*

- Architected and deployed a full-stack SaaS platform utilizing a **Turborepo** monorepo, **NextJS**, and **TypeScript**.
- Engineered backend services using **Node.js**, **Express**, and **PostgreSQL** (via Prisma/Drizzle), ensuring data consistency and high availability.
- Set up comprehensive **CI/CD** pipelines and containerized applications using **Docker**, optimizing deployment workflows and monitoring via observability tools.

TECHNICAL SKILLS

Languages: TypeScript, JavaScript (Node/Bun/Browser), Rust, Python, C++, HTML/CSS, SQL, Bash
Web Development: React, Next.js, Express, Tailwind CSS, Async JS, WebSockets, WebRTC
Databases & ORMs: PostgreSQL, MongoDB, Prisma, Drizzle, Redis (Pub/Sub), Vector DBs
DevOps & Cloud: Docker, Kubernetes, AWS (ASGs), CI/CD, Terraform (IaC), Firecracker, Reverse Proxies, Cloudflare Workers, CDNs, Observability/Monitoring
Web3 & Blockchain: Solana Architecture, Anchor, Rust Smart Contracts, @solana/web3.js, Defi (AMM, CLMM), Token Programs, Cryptography (MPC, Shamirs)
AI/ML: Neural Networks (CNN/RNN/LSTM), Hugging Face, RAG, RLHF, Fine-tuning, Agent Frameworks

LICENSES & CERTIFICATIONS

100 Days of Code: The Complete Python Pro Bootcamp — June 2025
Udemy — *ID: UC-bee87944-97c0-4e65-8f0b-57c098ed209e*

Supervised Machine Learning: Regression and Classification — Mar 2025
DeepLearning.AI — *ID: K6PL95XZFD76*

Introduction to Self-Determination Theory — May 2022
University of Rochester (Coursera) — *ID: G7UDMQN9WTWR*

COVID-19 Training for Healthcare Workers — May 2021
Stanford University (Coursera) — *ID: GNKHECRLHLLH*