

MOHD SHAYAN

+91 8920-038741 | contact@mohdshayan.com | mohdshayan.com | linkedin.com/in/shayanmohd | github.com/shayanmohd

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 <i>B.Tech in Mathematics & Computing</i>	New Delhi, India Nov 2022 – May 2026
Delhi Public School, Mathura Road <i>Senior Secondary Certificate (Class XII)</i>	New Delhi, India 2019 – 2021
Delhi Public School, Mathura Road <i>Secondary Certificate (Class X)</i>	New Delhi, India 2007 – 2019

EXPERIENCE

Machine Learning Intern (Practical Trainee) <i>Centre for Railway Information Systems (CRIS)</i>	July 2025 – Sep 2025 New Delhi, India
<ul style="list-style-type: none">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 <i>SocialSure Private Limited</i>	March 2024 – Present New Delhi, India / Remote
<ul style="list-style-type: none">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.	

PROJECTS

Shayanomaly (Web3 Arbitrage & Trading Terminal) <i>Next.js, Node.js, CCXT, Flashbots, Solidity</i>
<ul style="list-style-type: none">Developed an institutional-grade trading dashboard using Next.js and Tailwind CSS, aggregating real-time CEX/DEX order books via WebSockets and the CCXT library.Engineered a Node.js execution engine to detect cross-exchange arbitrage anomalies and execute Aave V3 flash loans via custom Solidity smart contracts.Implemented MEV protection utilizing the Flashbots Bundle Provider to bypass the public mempool, ensuring secure, front-running-resistant atomic transactions with zero private key exposure.
Habits: Minimalist Productivity Tracker (Android) <i>Kotlin, Jetpack Compose, MVVM, Room DB, CI/CD</i>
<ul style="list-style-type: none">Engineered a privacy-first, offline Android application entirely with Jetpack Compose and Material 3, successfully deploying it to the Google Play Store.Architected a robust MVVM system leveraging Room Database and Kotlin Coroutines/Flow for zero-latency, 100% local data storage with no external dependencies.Established a continuous integration pipeline via GitHub Actions to automate build verification, manage Gradle caching, and enforce zero-leak security policies for signing keys.

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