Divyansh Joshi

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Professional Summary

Solutions & Systems Architect specializing in zero-trust enterprise infrastructure, high-availability storage clusters, and AI-driven systems engineering. Expert in bare-metal virtualization (Proxmox, TrueNAS SCALE, ZFS), edge computing (Cloudflare Workers, Rust/WASM), Model Context Protocol (MCP), and multi-agent AI orchestration, architecting fault-tolerant infrastructure with 99.99% service availability.

Professional Experience

LNJ Corporate Solutions Indore, India
Lead Systems & Cloud Solutions Architect Dec 2025 - Present

- **Enterprise Storage & HA:** Architected a Proxmox VE hypervisor cluster on TrueNAS SCALE with ZFS RAID-Z and 3-2-1-1 automated backup replication, delivering 99.99% data availability across multi-terabyte datasets.
- **Zero-Trust Network Mesh:** Spearheaded an enterprise Zero-Trust access fabric using Tailscale mesh overlays and Cloudflare Tunnels (mTLS), eliminating 100% of public IPMI/SSH exposure across 15+ distributed server nodes.
- **High-Throughput Search Engine:** Deployed an indexed search engine over 350+ GB (700,000+ files), reducing document query and retrieval latency by 85% with zero host CPU performance degradation.
- **AI-Driven Automation & Telemetry:** Automated asynchronous Python pipelines interfacing with self-hosted LLM APIs and TrueNAS REST services to audit NFSv4/SMB ACLs and monitor real-time SMART disk health telemetry.

Projects

PeerStor | Fault-Tolerant Distributed Storage Cluster (*Rust, Tokio, Raft, gRPC*) 2025 - 2026

- Architected an asynchronous peer-to-peer storage engine across 10+ virtualized nodes, implementing Raft-backed leader election to guarantee deterministic data recovery from node failover in <300ms.
- Built concurrent chunking and stream replication pipelines in Rust, achieving sub-20ms synchronization latency across clustered nodes with zero data corruption under simulated partition failures.

Bare-Metal IoT Gateway | Remote Access & Power Governor (*ESP32 C++, LittleFS, HTTPS*) 2025

- Formulated an embedded gateway on ESP32 microcontrollers executing encrypted Wake-on-LAN (WoL) and ACPI power-state transitions over authenticated HTTPS, securing out-of-band management without WAN exposure.
- Integrated TrueNAS REST API clients with persistent cron scheduling on non-volatile LittleFS flash memory, guaranteeing 100% deterministic task recovery across 50+ simulated power outages.

WASM Edge Platform | Medical AI Decision Engine (*Rust, Leptos, WASM, Cloudflare, LangGraph*) 2026

- Engineered a client-side WebAssembly platform with sub-50ms Time-to-Interactive (TTI) and a 100/100 Lighthouse score utilizing Rust and Leptos, deployed over Cloudflare edge runtime for globally distributed zero-cold-start performance.
- Constructed an autonomous LangGraph decision pipeline extracting 10,000+ unstructured medical records into validated biomarker JSON datasets, querying clinical trial APIs with sub-3-second inference speeds.

Technical Skills

Cloud & Infrastructure: Amazon Web Services (AWS), Google Cloud Platform (GCP), Cloudflare Workers, Proxmox VE, TrueNAS SCALE, ZFS Storage, Docker, Kubernetes, Linux (Debian, RHEL).

Software Engineering & Languages: Python (FastAPI, Asyncio), Rust (Tokio, Leptos, WASM), C/C++ (ESP32/Embedded), SQL, Bash Scripting, WebAssembly, RESTful APIs, gRPC.

AI Engineering & Automation: Model Context Protocol (MCP), Multi-Agent AI Orchestration, LangGraph, LangChain, Self-Hosted LLMs / Inference APIs (Groq, Ollama, vLLM), Context Architecture.

Architecture, Security & SRE: Distributed Storage, Consensus (Raft), Zero-Trust Architecture (mTLS, Tailscale WireGuard, Cloudflare Tunnels), High Availability (99.99% SLA), CI/CD (GitHub Actions), FinOps.

Certifications & Accreditations

Cloud & Database: Oracle Cloud (OCI) Foundations Associate | MongoDB Node.js Developer Path

Infrastructure as Code & AI: HashiCorp Certified: Terraform Associate (003) (In Prep) | DeepLearning.AI – LangChain

Education

Vellore Institute of Technology (VIT) Bhopal, India
Bachelor of Technology in Computer Science and Engineering 2022 - 2026