

SUDHANSHU SINGH

Gurgaon, India

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DEVOPS / SITE RELIABILITY ENGINEER

DevOps / SRE engineer who owns production reliability end-to-end — migrated and now solely runs a 4-service AWS stack for 50,000+ users with Infrastructure as Code (Terraform, Ansible), CI/CD, observability, and live incident response. Cut infrastructure cost ~20% and a full database tier through hands-on performance work, on a Node.js / TypeScript engineering foundation.

TECHNICAL SKILLS

Cloud (AWS): EC2, Auto Scaling Groups, Application Load Balancer, ECR, ElastiCache, Route 53, VPC peering, IAM, Secrets Manager, CloudWatch, Systems Manager (SSM)

IaC & Config: Terraform, Ansible, Docker, Nginx, Traefik, PM2, Cloudflare, Linux

CI/CD & Release: GitHub Actions, blue/green & rolling deploys, automated rollback

Observability & Reliability: Prometheus, Grafana, Loki, Promtail, incident response

Backend: Node.js, Express.js, REST APIs, WebSockets, Socket.IO, RabbitMQ, JWT, OAuth 2.0, RBAC

Databases: MongoDB (Atlas), Redis — schema design, indexing, query optimization, caching

Languages: Python, TypeScript, JavaScript

EXPERIENCE

RegisterKaro (Safe Ledger Pvt. Ltd.)

Mar 2025 – Present

Software Engineer

Gurgaon, India

- **Single-handedly migrated production from DigitalOcean to AWS** (ap-south-1) — provisioned the full stack with Terraform + Ansible (multi-AZ EC2 Auto Scaling Group, ALB, ECR, ElastiCache/Valkey, Secrets Manager; all private-subnet), ran a **zero-downtime DNS cutover** for **50,000+ customers**, and retired the legacy stack **4 days early**.
- **Drove a ~20% cut in infrastructure cost (~\$11.6K/year)** — relocated compute to the database's region, set up Atlas↔AWS **VPC peering** (eliminated ~\$390/mo of NAT egress), and decommissioned DigitalOcean; authored the vendor-bill-backed cost brief prepared for the **CEO**.
- **Downsized the production MongoDB Atlas cluster a full tier (M50 → M40, ~\$7.6K/year)** — hand-analyzed slow-query logs and ran a pipeline + index optimization campaign: inverted the heaviest aggregation pipeline (**23.5s → ~80ms**) and dropped **~244 redundant indexes across 16 collections**, reclaiming **~43% of slow-query time** and ~2 TB/month of disk reads.
- **Cut ~8,000+ redundant MongoDB ops/min** (peak ~17K fleet-wide) — built live production diagnostics (event-loop lag + per-endpoint counters across both PM2 workers), Redis-cached auth/notification/dashboard hot paths (**auth: 6–7 DB ops/request → ~0**), and moved per-request writes to cron, eliminating multi-second event-loop freezes (**~46s → <0.2s**).
- **Hardened reliability and security** — multi-AZ Auto Scaling, decoupled API health checks from RabbitMQ, enforced **TLS + AUTH on ElastiCache**, and replaced the database's 0.0.0.0 access with VPC peering + an explicit allowlist; validated a **~5-minute recovery objective** in a restore drill.
- Fixed a long-standing **webhook race condition** under concurrent RabbitMQ ingestion (atomic `findOneAndUpdate` + prefetch tuning) and added a **Redis distributed lock** for idempotent deduplication, degrading gracefully when Redis is unavailable.
- Built **GitHub Actions CI/CD** across the 4-service stack with **blue/green deploys (ALB target-group swap)** plus rolling ASG/SSM deploys and automated rollback; stood up the **Grafana + Loki + Promtail** observability stack for incident response.

Segwitz

May 2024 – Jan 2025

Software Engineer

Remote / Kuala Lumpur

- Built React SPA dashboards with code-splitting and lazy loading (~10% faster initial load); implemented OAuth 2.0 with token refresh, protected routes, and secure session handling, partnering with the backend team on REST API contracts.

EDUCATION

Chandigarh University

B.E. in Computer Science and Engineering

Aug 2020 – Jul 2024

Mohali, India