Saurav Singh

Site Reliability Engineer

Bengaluru, India • 6206860109 • sauravchp2@gmail.com
sskbtw.xyz • github.com/2SSK • linkedin.com/in/2ssk

Summary

Site Reliability Engineer with 1.5+ years of production experience operating multi-tenant infrastructure built on Temporal workflow orchestration, PostgreSQL high-availability, and the observability layer (Prometheus, Grafana, ELK, OpenTelemetry). Strong in incident response, postmortems, runbooks, on-call discipline, and automation with Ansible/AWX and Docker. Has owned production databases, analytics infrastructure (Apache Superset, Celery, Trino) and reliability for a fleet, and ships open-source tooling.

Experience

Site Reliability Engineer AMOGA | Remote
Jul 2026 – Present

- Design a reporting architecture that keeps analytics load off production databases: dashboards read scheduled, flattened snapshots in a dedicated analytics environment instead of querying live tenant databases on every refresh.
- Own reliability for the fleet: led postmortems for production OOM incidents and Temporal slowdowns, identified and fixed root causes, and wrote runbooks so the next engineer inherits the lessons.
- Operate on-call and incident response across a Temporal-orchestrated, multi-tenant production stack.

DevOps Engineer AMOGA | Remote
Feb 2026 – Jun 2026

- Built and operate a production PostgreSQL 17 primary–replica high-availability cluster with async WAL streaming replication across 3 machines, automated failover runbooks, zero-data-loss backup/restore, and fleet-wide multi-tenant data retention via dblink and pg_cron.
- Built an Ansible automation platform on containerized Execution Environments (ansible-builder / ansible-navigator) with a custom AWX deployment and Vault-encrypted secrets; playbooks cover server bootstrap, GitHub provisioning, Elastic Agent rollout, and patch governance.
- Deployed and maintain a Dockerized Apache Superset analytics platform with Hive Metastore/Trino integration, Celery background workers, and an MCP server enabling AI-assistant access to dashboards.

DevOps Intern AMOGA | Remote
Jun 2025 – Jan 2026

- Built "run", a schema-driven CLI (TypeScript, Ink/Pastel) for provisioning and maintaining Ubuntu dev servers with dependency-aware package installs, dry-run planning, and self-update; adopted fleet-wide via Ansible.
- Built the monitoring stack for a Temporal + PostgreSQL deployment: Prometheus scraping the PostgreSQL exporter remotely from a separate replica host, visualized in Grafana with alerting.

Projects

PatchOps github.com/2SSK/patchops
Open Source

- Self-contained Linux patch-governance platform: Aptly-based repo mirroring with immutable snapshot promotion through dev/staging/prod behind SQL gates, orchestrated by a custom AWX standalone deployment running 14 job templates on 7 schedules.
- Automated CVE/CVSS enrichment by parsing package changelogs against Ubuntu's security tracker; built a rollback role that actually downgrades already-patched clients; governance backed by PostgreSQL and Grafana.

Postgres HA Cluster github.com/2SSK/postgres-ha-cluster
Open Source

- Production-ready 3-node PostgreSQL cluster with Patroni (cluster management), etcd (consensus), and HAProxy (read/write split routing); automatic failover and health monitoring, fully containerized via Docker Compose.

NGINX Load Balancer Lab github.com/2SSK/nginx-load-balancer-lab
Open Source

- Active-passive high-availability stack: two nginx + keepalived (VRRP) nodes fronting a Go backend behind a shared virtual IP, with a full observability stack (Prometheus, Grafana, Loki, Alertmanager, blackbox-exporter), 7 alert rules, and an automated failover test suite covering real failure scenarios.

Simple Temporal github.com/2SSK/simple-temporal
Open Source

- Production-ready Express.js + Temporal.io service template: durable workflow orchestration with activity retry and

distributed tracing, Docker Compose stack with PostgreSQL, Prometheus, Grafana, and OpenTelemetry Collector, PM2 process management.

Skills

Languages: Go, TypeScript, JavaScript, Python, Bash, C, C++, Rust, SQL

Infrastructure / DevOps: Linux, Docker, Docker Compose, Nginx, Ansible, AWX, Temporal, Prometheus, Grafana, Loki, ELK Stack, OpenTelemetry, Patroni, systemd, Tailscale, GitHub Actions, CI/CD, Azure

Databases: PostgreSQL, Redis, MySQL, MongoDB

Backend: Node.js, Express.js, Go (Echo), REST APIs, WebSockets, Prisma, Drizzle ORM

Education

B.Tech in Computer Science **2022 – 2026**
Punjab Technical University