

# Saurav Kumar

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## Summary

DevOps / Infrastructure Automation engineer specializing in Temporal workflow orchestration, PostgreSQL high-availability architecture, and observability (Prometheus, Grafana, Loki, OpenTelemetry). Builds production-grade automation for patch governance, CI/CD, and distributed systems on Linux and Azure.

## Education

**Punjab Technical University**  
*B.Tech in Computer Science*

*Aug 2022 – Apr 2026*

## Experience

### DevOps Engineer

*Amoga Software Pvt. Ltd.*

*Bengaluru, IN*

*Feb 2026 – Present*

- Operate a production PostgreSQL 17 HA cluster (WAL streaming replication, automated failover, zero-data-loss backups, fleet-wide multi-tenant retention via dblink/pg\_cron) and a Dockerized Apache Superset analytics platform (Hive Metastore/Trino, Celery workers).
- Built an Ansible automation platform in containerized Execution Environments with a custom AWX deployment, Vault-encrypted secrets, and playbooks for bootstrap, GitHub provisioning, Elastic Agent rollout, and patch governance.

### DevOps Intern

*Amoga Software Pvt. Ltd.*

*Bengaluru, IN*

*Jun 2025 – Jan 2026*

- Built “run”, a schema-driven CLI (Ink/Pastel/TypeScript) 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 PostgreSQL exporter metrics remotely from a separate replica host, visualized in Grafana with alerting.

## Projects

### PatchOps

[github.com/2SSK/patchops](https://github.com/2SSK/patchops)

- Engineered a self-contained Linux patch governance platform: Aptly-based repository mirroring with snapshot promotion, orchestrated end-to-end by a custom-built AWX standalone deployment running 7 scheduled job templates.
- Implemented automated CVE/CVSS enrichment by parsing package changelogs against Ubuntu’s security tracker, plus a rollback role that safely downgrades already-patched hosts; governance data and dashboards backed by PostgreSQL and Grafana.

### Postgres HA Cluster

[github.com/2SSK/postgres-ha-cluster](https://github.com/2SSK/postgres-ha-cluster)

- Production-ready 3-node PostgreSQL cluster using Patroni for cluster management, etcd for distributed consensus, and HAProxy for read/write split routing with automatic failover and health monitoring – all containerized with Docker Compose.

### Simple Temporal

[github.com/2SSK/simple-temporal](https://github.com/2SSK/simple-temporal)

- Production-ready Node.js microservice template: Express.js + Temporal.io for durable workflow orchestration with activity retry and distributed tracing; Docker Compose stack with PostgreSQL, Prometheus, Grafana, and OpenTelemetry Collector.

### Homelab

[github.com/2SSK/homelab](https://github.com/2SSK/homelab)

- Ubuntu server automation framework: 9-phase bootstrap, SSH hardening, Tailscale VPN, Docker setup, and a full observability stack (Prometheus, Grafana, Loki, Alertmanager) with 97 custom alert rules across 6 dashboards.

## Skills

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

**DevOps / Infra:** Linux, Docker, GitHub Actions, CI/CD, Ansible, AWX, Aptly, Temporal, Prometheus, Grafana, Loki, OpenTelemetry, Patroni, systemd, Tailscale, Nginx, Azure, PostgreSQL, Redis

**Backend:** Node.js, Express.js, Go Echo, REST APIs, WebSockets, Prisma, Drizzle ORM, MongoDB, Microservices