Sameer Banchhor

DevOps & Platform Engineer — Cloud Infrastructure, Systems Automation, Air-Gapped Deployments

+91 6260904361 | work@sameerbanchhor.in | sameerbanchhor.in | linkedin.com/in/sameerbanchhor

PROFESSIONAL SUMMARY

DevOps and Platform Engineer specializing in systems automation, container security, and infrastructure reliability across two paradigms: cost-engineered scale-to-zero serverless cloud platforms and fully air-gapped on-premises environments. Maintained infrastructure serving 200–300 daily active users alongside secure offline systems used daily by municipal officers, university leadership, and police investigators. Skilled in Ansible provisioning, hardened multi-stage Docker images, Cloud Run autoscaling, network performance tuning, and forensic-grade security boundaries.

CORE TECHNICAL SKILLS

Infrastructure as Code: Ansible, Terraform, Bash/Shell scripting, systemd
Containers & Orchestration: Docker (multi-stage, non-root, attack-surface minimization), Docker Compose, Kubernetes (workloads, namespaces, ingress)
Cloud & Serverless: Google Cloud Platform (Cloud Run scale-to-zero, IAM, Cloud Build), AWS, Azure, Cloudflare (DNS, edge routing, SSL/TLS), Hugging Face Spaces
CI/CD: GitHub Actions, GitLab CI/CD, Git, automated testing and linting pipelines, semantic release
Observability: Grafana, Prometheus, health-check probes, log aggregation, runtime metrics profiling
Systems & Performance: Linux/Unix internals, POSIX, TLS JA3/JA4 fingerprinting (curl_cffi), httpx connection pooling, bounded LRU caching, memory envelope tuning (512MB–4GB)
Languages & Data: Bash, Python, Go, ChromaDB, DuckDB, embedded analytical stores

PROFESSIONAL EXPERIENCE

Contract DevOps & Platform Engineer — Bhilai Nagar Municipal Corporation

Bhilai, CG | Oct 2025 – Jun 2026 | Vasundhara Nagar Smart Analysis Platform

- Designed and deployed a zero-egress, air-gapped infrastructure topology with fully local inference, guaranteeing no civic or voter data left the physical security perimeter.
- Authored idempotent Ansible playbooks provisioning bare-metal workstations, OS dependencies, systemd daemons, and isolated runtimes across heterogeneous nodes.
- Segregated Go document-processing pipelines from Python/LangGraph inference runtimes, eliminating CPU/memory contention; architected embedded ChromaDB and DuckDB storage in place of distributed clusters.
- Validated pipeline resiliency and memory stability against a 31M-record synthetic dataset.

Contract Infrastructure & Systems Engineer — Durg Division Higher Education

Durg / Bhilai, CG | Jul 2025 – Apr 2026 | Durg Smart Result Management System

- Deployed Go backend services as compiled binary images under 30MB, cutting container memory footprint and cold-start boot times.
- Implemented rate limiting, jittered retries, and circuit breakers on ingestion pipelines to guarantee reliable, non-disruptive data collection from source portals.
- Automated a public demonstration environment on Google Cloud Run using scale-to-zero serverless mechanics.

Cyber Infrastructure & Security Consultant — Law Enforcement & Cyber Crime Cell

Korba & Regional Divisions, CG | Dec 2023 – Present | Cyber Investigation Tooling (Confidential)

- Hardened air-gapped hosts with full-disk encryption, localized access controls, and zero outbound network interfaces for sensitive FIR and CDR records.
- Applied digital forensics chain-of-custody practice to data handling and system logging for tamper-evident, auditable local operation under a zero-trust data residency model.

OPEN SOURCE INFRASTRUCTURE

BhilaiTV — Civic Media Discovery Platform / *Jul 2026 – Aug 2026 | 200–300 daily active users*

- Engineered a containerized Cloud Run deployment (4 GiB RAM, scale-to-zero concurrency) holding idle infrastructure run-rate at $0/month while absorbing traffic bursts.
- Replaced headless browser engines with socket-level TLS JA3/JA4 impersonation via curl_cffi, reducing memory consumption by over 80%.
- Tuned an event-loop-aware httpx connection pool (max_keepalive_connections=25), cutting cold catalog latency ~40%; enforced a 1,000-key LRU cache to prevent OOM kills, monitored via Grafana.

ChhattisVani — Multimodal AI Serving Gateway / *Apr 2024 – Sep 2026*

- Standardized microservice Docker builds across complex native STT, TTS, and vision dependencies for identical local and cloud behavior.
- Re-architected the inference layer into an infrastructure-agnostic gateway hot-swapping external endpoints and self-hosted VPS runners with zero downtime, with automated build and deploy pipelines to GCP and Hugging Face.

EDUCATION

M.Sc., Kalyan Post Graduate College, Bhilai — SGPA 7.8 · **B.Sc.**, Kalyan Post Graduate College, Bhilai — SGPA 7.1