# Rounak Neema

Email: rounakneema414@gmail.com — Phone: +91-7049533405 — GitHub: https://github.com/rounakneema — Portfolio: https://rounakneema.in — LinkedIn: https://linkedin.com/in/Rnks23

**Site Reliability Engineer (Platform Engineering, Distributed Systems)**

## Summary

Site Reliability Engineer specializing in Go, distributed systems, and cloud infrastructure automation. Hands-on experience architecting real-time log ingestion engines, GitOps CI/CD pipelines, and observability platforms. Open-source contributor to SPQR (PostgreSQL sharding router), grounded in proactive SRE principles.

## Skills

**Languages:** Go (Primary), Python, Java, Bash, SQL
**Observability & Reliability:** Prometheus, Grafana, AlertManager, SLI/SLO, Golden Signals, Incident Runbooks, Distributed Systems
**Cloud & DevOps:** AWS (EC2, S3, IAM, CloudWatch), Docker, Kubernetes, Helm, Terraform, GitHub Actions, Jenkins
**Linux & Systems:** Linux, systemd, journald, TCP/IP, DNS, HTTP/S, Bash scripting, cron, Process Management
**Testing & Databases:** k6, Go Benchmarking, Trivy, PostgreSQL, SQLite, Distributed Sharding, SPQR Router

## Education

**B.Tech in Computer Science** *2023 – 2027*
SVKM's NMIMS Mukesh Patel School of Technology Management and Engineering, Shirpur (CGPA: 3.16 / 4.0)

## Projects

**ObservaStack – Cloud Observability & Alerting Platform (Go, AWS, Terraform)** *2026*

- Built Go Prometheus exporter with 15s scrape intervals, achieving <5ms response time across 3 microservices for SLI/SLO tracking
- Provisioned AWS EC2 via Terraform with CloudWatch alarms and 5 structured runbooks, reducing MTTR for recurring failure modes
- Configured Grafana with P1/P2/P3 AlertManager routing and validated end-to-end alerting pipeline under 500 VUs via k6 load tests

**OSA – Log Intelligence & Anomaly Detection Platform (Go)** *2026*

- Architected high-performance log ingestion engine for 5 heterogeneous source types with <200ms latency for real-time incident detection
- Implemented dual-layer anomaly detection (Z-score + Markov chain modeling), reducing false-positive alerts by ∼38%
- Engineered zero-dependency Go binary unifying live detection and forensic batch processing for air-gapped environments

**PipelineForge – GitOps CI/CD Deployment Automation (GitHub Actions, K8s)** *2026*

- Built GitOps pipeline automating Docker image builds, Trivy container scans, and Kubernetes deployments with a full audit trail
- Utilized multi-stage distroless Docker builds to reduce image size from 1.1GB to ∼8MB (99.3% reduction), shrinking the attack surface
- Implemented HPA auto-scaling, NetworkPolicies, and rollbacks; validated zero-downtime deployments under 500 VU simulated load

## Open Source

**SPQR – PostgreSQL Distributed Sharding Router (Go)** *2025*

- Implemented request-per-second (RPS) tracking natively in Go across distributed routing layer to introduce real-time throughput visibility
- Instrumented routing decisions across the sharding layer to improve observability and reduce MTTR for performance regressions

## Experience & Achievements

- **Leadership:** Cybersecurity Lead, NMIMS Coding Club; managed 12 members, hosted 5+ CTF events, taught cloud & security to 100+ students.
- **Certification 1:** Introduction to Critical Infrastructure Protection (ICIP) – OPSWAT Academy
- **Certification 2:** Cloud Computing Fundamentals – IBM SkillsBuild
- **Hackathons & Competitions:** Built MetroMind backend for SIH 2025 (100% audit capture); 1st Place College CTF; AWS AI for Bharat Round 2 Qualifier; Google CTF; 8+ Hackathons.