





Abhishek Kumar Singh


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Profile

DevOps/SRE Engineer with 7+ years of experience in managing and optimizing cloud operations across **AWS, Azure, and GCP**. Skilled in **Infrastructure as Code (Terraform, Ansible)**, **container orchestration (Kubernetes)**, **Build & Release** and **cloud monitoring/alerting**, ensuring reliability, security, and performance of cloud environments.

Currently upskilling **Agentic AI, AIOps and AI-driven observability** for proactive incident detection, anomaly detection, and predictive analytics in complex cloud ecosystems.

Proven track record in **performance optimization, disaster recovery, and security compliance** across banking, telecom, and e-commerce domains. Adept at driving automation, reducing **MTTR**, and improving operational efficiency through strategic planning and advanced monitoring frameworks.

Work Experience

Team Leader
SLK Software

01/2025 – Present
Client: Emerson, Fifth Third Bank, HNB bank |
Bengaluru

- Emerson**
- Built end-to-end **observability** for Azure workloads using **Managed Prometheus, Grafana, Azure Monitor**; **MTTR ↓25%**, false alerts **↓30%**.
 - Designed monitoring for **AKS, PostgreSQL**, and HTTP endpoints with **SLO/SLA** dashboards and actionable alerting.
 - Delivered infrastructure changes via **Terraform & Ansible** with standardized modules, approvals, and guardrails to improve release safety.
 - Collaborated with product owners & platform teams to define **golden signals** and operational readiness checklists for new services.

- Fifth Third Bank**
- Automated **OS patching & deployments** with **Ansible + Jenkins**; manual effort **↓70%**.
 - Enabled event correlation and auto-baselining in Dynatrace, cutting P1/P2 incidents by ~20%.
 - Introduced **runbooks** and **incident response** playbooks with **PagerDuty/Opsgenie**, improving on-call consistency and time to mitigation.
 - Acted as a **Build & Release-focused SRE**, owning CI/CD pipelines and production release workflows to ensure releases were **safe, observable, and reversible** across Kubernetes platforms.
 - Designed and enforced **release SLOs and post-deployment health checks** using Prometheus, Grafana, Dynatrace, and Splunk to detect bad releases early, reducing rollback frequency and improving MTTR by 25–40%.
 - Implemented **blue-green and canary deployment strategies** on EKS/GKE/AKS with capacity-aware rollouts (HPA/VPA), minimizing blast radius and operational risk during high-traffic production releases.

- HNB Bank**
- Orchestrated event-driven remediation (PowerShell/Ansible) triggered by anomaly signals, **lowering manual toil by ~30%**.
 - Applied OS hardening & patch compliance for cloud and on-prem nodes aligned to CIS baselines; improved audit scores to 95%+.
 - Expanded **Dynatrace & Splunk** dashboards with threshold tuning and business KPIs; improved signal-to-noise ratio for alerting.
 - Managed **GKE** deployments with **HPA/VPA**, resource governance, and secure ingress/egress; improved stability and cost efficiency.

SRE/Devops Engineer

06/2021 – 12/2024 | Client: Transunion | Noida

Impetus Technologies

- Migrated legacy monoliths to **Kubernetes microservices** (Docker + GKE, EKS), improved scalability, resilience, and release velocity.
- **Cloud networking & security**: Designed **VPC/VNet** with private subnets, secure ingress (**ALB/App Gateway**), controlled egress (**NAT/Firewall**); removed public exposure for core services.
- Implemented **IAM/RBAC & secrets management (AWS KMS / GCP Secret Manager)** integrated with CI/CD; enforced least privilege and automated key rotation.
- Implemented production-grade **CI/CD pipelines** using Jenkins, incorporating blue/green and canary deployments, reducing rollback frequency by 30%.
- Developed **Ansible Playbooks** to automate software provisioning, deployment, configuration updates, and system maintenance, reducing manual intervention.
- Tuned **HPA/VPA** and resource requests/limits; lowered compute costs by ~**20%** while meeting p95 latency targets.
- Standardized **Terraform modules** for network, compute, and Kubernetes add-ons; cut provisioning time by ~**80%** and improved reproducibility.
- Leveraged **Splunk/ELK** for log analytics with custom dashboards; accelerated troubleshooting and reduced mean time to detect.
- Conducted **vulnerability assessments** and applied necessary patches to mitigate security risks and ensure compliance.
- Utilized **Prometheus, Grafana, and Dynatrace** for real-time monitoring and alerting, enabling proactive system management and performance optimization.
- Configured and deployed **VPN solutions** for customers using **Libreswan and StrongSwan**.
- Migrated VMWare to AWS; used EC2, ELB, S3, RDS.
- Managed customer tickets and provided **Oncall supports** for alerts, ensuring timely resolution and customer satisfaction.
- Mitigated **security risks** by conducting regular vulnerability assessments and applying necessary patches.

Software Engineer

10/2018 – 05/2021 | Client: Kohl's | Noida

Cavison Systems

- Implemented robust **monitoring (APM,) and alerting tools** to reduce system downtime for critical applications.
- Performed **performance testing, monitoring, and diagnostics** to optimize enterprise app reliability and throughput.
- Implemented **Jenkins CI/CD** pipelines for build/test/deploy, improved automation and release cadence.
- Provisioned environments using **Terraform**; established logging/monitoring baselines and monthly patch workflows.
- Containerized workloads with **Docker/Docker-Compose**; streamlined packaging and deployment.
- Managed configuration, change, release, and build processes on **Linux**, maintaining system integrity and uptime.
- Worked with software development and testing team members to design and develop robust solutions to meet **client requirements** for functionality, scalability, and performance.

Skills

- Provisioning infra using Terraform.
- AI observability (OpenAI, Gemini, NVIDIA) and anomaly detection (AIOps).
- Implemented AI-powered automation and self-healing workflows for operational efficiency.
- Predictive analytics for capacity planning.
- Diagnosed Java performance issues (memory leaks, GC pauses, slow endpoints) in production and Monitored JVM health (heap, GC, thread count, response time).
- Performance Tuning and Optimization.
- Disaster Recovery and High Availability.
- Configuration Management and Deployment- Ansible.
- Monitoring, Logging and Observability.
- CI/ CD and Automation.
- Migrating monolithic application to Containerization and Orchestration based model.
- Security and Vulnerability Management.
- Ticketing, Documentation and Collaboration tools.
- On call Production support & IT operations Troubleshooting and Debugging.

Tools

AI/ops & Observability AI:

- Dynatrace Davis AI (Anomaly Detection, Root Cause Analysis)
- Splunk ML Toolkit (Log & metric-based anomaly detection)
- Predictive capacity analytics (CPU, memory, pod saturation forecasting)

AI / LLM Skills: Prompt Engineering, Llama / open-source LLMs, Agentic AI workflows, Fast API, LlamaIndex

Operating Systems: Linux, Windows

Servers & Web: NGINX, Apache HTTP, Apache Tomcat, JBoss

Cloud Services: AWS, GCP, Azure

Configuration & Infrastructure Management: Ansible, Ansible Tower, Terraform

CI/CD Tools: Jenkins, Harness CI/CD, Argo CD

Container Technology: Docker, Docker-Compose, Kubernetes, Helm

Database: PostgreSQL, MySQL, RDS

Monitoring & Logging Tools: Grafana, Prometheus, Cortex, Fluentd, Filebeat, Netdiagnostic, Splunk, ELK Stack, Dynatrace, Google Cloud Monitoring, Amazon CloudWatch, ThousandEyes, AI observability

Security & Vulnerability: SonarQube, Rapid7 Nexpose, CrowdStrike Falcon

Ticketing Tools: JSM, ServiceNow

Version Control: GitHub, GitLab

Incident Management & Automation: PagerDuty, Opsgenie, StackStorm, Shell scripting, AWX

Artifact & Image Management: Docker Trusted Registry (DTR), Harbor, Nexus

Messaging & Streaming: RabbitMQ, ActiveMQ, Kafka

Documentation & Collaboration: Confluence, SharePoint, Google Workspace, Microsoft Teams + OneNote

VPN Solutions: Libreswan, StrongSwan

Engineering Initiatives

- Designed and built a **web-based Terraform dashboard** integrated with an **AI chatbot** assistant to streamline infrastructure provisioning and improve user experience.
- Open-source LLMs (LLaMA) for internal SRE knowledge assistance and RCA exploration.
- Led POC for **SLK Direct** to accelerate SRE journey: aggregated data from **Dynatrace & ServiceNow**, built unified ops views and workflows.
- Integrated **AWX** for **event automation** and self-service ops; reduced manual interventions across incident & change processes.
- Built POCs with **Harness** (CI/CD), showcasing automated build/deploy, progressive delivery, and policy checks.
- Evaluated **Nagios, Thousand Eyes, New Relic** for infra/network/app performance; produced comparative findings and adoption recommendations.

Education

Bachelor of Technology (B.Tech) in Electronics

08/2014 – 07/2018 | Ghaziabad

Ideal Institute of Technology

Percentage: 73%