

# Abhishek Kumar Singh

## Senior DevOps & Site Reliability Engineer | Cloud Operations

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## Specialized skills and Tools

### Specialized skills

- Provisioning infra using Terraform.
- AI-driven observability and anomaly detection (AIOps).
- Implemented AI-powered automation and self-healing workflows for operational efficiency.
- Predictive analytics for capacity planning.
- 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

- **CICD Tool:** Jenkins, Harness CI/CD, Argo CD
- **AIOps & AI Tools:** Dynatrace Davis AI, Splunk ML Toolkit, AWS DevOps Guru, Azure Monitor AI Insights.
- **Operating System:** Linux and Windows
- **Servers & Web:** NGINX, Apache HTTP, Apache Tomcat, JBoss
- **Scripting Tools:** Shell scripting
- **Cloud Service:** AWS, GCP & Azure CI-CD
- **Configuration & Infrastructure management Tools:** Ansible, Ansible tower, Terraform & Event automation tools.
- **Container Technology:** Docker, Docker-Compose and Kubernetes
- **Database:** Postgres, MySQL and RDS

## Profile

DevOps/SRE engineer with strong cloud operations experience across AWS, Azure, and GCP. Skilled in IaC (Terraform/Ansible), container orchestration (Kubernetes), and cloud monitoring/alerting; contributes to cloud environment reliability, security posture, and performance.

Experienced in leveraging AIOps and AI-driven observability for proactive incident detection, anomaly detection, and predictive analytics in cloud environments.

Proven track record in performance optimization, disaster recovery, and security compliance for 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%**.
- Built predictive capacity checks (CPU/memory/pod utilization) with Kusto + Python, **forecasting saturation 7–14 days ahead**.
- 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%**, lead time **↑40%**.
- Enabled event correlation and auto-baselining in Dynatrace, **cutting P1/P2 incidents by ~20%** and speeding triage by ~40%.
- Implemented **CI/CD** pipelines with quality gates (lint, unit/integration tests, **SonarQube**) and **blue/green/canary** strategies to reduce rollbacks.

- **Monitoring & Logging Tools:** Grafana, Prometheus, Netdiagnostic, Splunk, ELK Stack, Dynatrace, Google Cloud Monitoring, Amazon CloudWatch, ThousandEyes
- **Security and Vulnerability:** SonarQube, Rapid7 Nexpose, CrowdStrike Falcon
- **Ticketing Tools:** JSM, ServiceNow
- **Versioning:** GitHub & Gitlab
- **Incident management & Automation:** PagerDuty, Opsgenie, Stackstorm, Shell scripting

## Education

*Bachelor of Technology (B.Tech) in Electronics and Communication Engineering*

08/2014 – 07/2018 | Ghaziabad, U.P

**Ideal Institute of Technology**

Percentage: **73%**

- Used Splunk MLTK for log-pattern drift detection to **reduce MTTD by ~25–30%**.
- Introduced **runbooks** and **incident response** playbooks with **PagerDuty/Opsgenie**, improving on-call consistency and time to mitigation.

## 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.

## POC

- Built an LLM-assisted ChatOps bot to summarize incidents and propose runbook steps, **reducing war-room time by ~20%**.
- Led POC for **SLK Direct** to accelerate SRE journey: aggregated data from **JIRA & ServiceNow**, built unified ops views and workflows.
- Integrated **AWX/Ansible Tower** 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, ThousandEyes, New Relic** for infra/network/app performance; produced comparative findings and adoption recommendations.

## Software Engineer

*Impetus Technologies*

05/2021 – 12/2024 | Client: Transunion | Noida

- Migrated legacy monoliths to **Kubernetes microservices** (Docker + AKS/EKS/GKE); 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 / Azure Key Vault / GCP Secret Manager**) integrated with CI/CD; enforced least privilege and automated key rotation.

- Built production-grade **CI/CD** with **Jenkins/Argo/Harness** and **blue/green & canary** deployments; reduced rollback frequency by **30%**.
- 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

## **Software Engineer**

*Cavisson Systems*

10/2018 – 03/2021 | Client: Kohl's | Noida

- 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.