Nishant Singh

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Summary

DevOps Engineer who automates workflows and boosts efficiency through scripting and infrastructure as code. Actively builds and experiments with a personal homelab to explore new tools and optimize systems.

Skills

Languages: Golang, Bash

Version Control: Git, Github

Platforms & Portals: GCP, AWS, Backstage

CI/CD: Github Actions, ArgoCD, FluxCD

Monitoring & Observability: Prometheus, Grafana

Infrastructure as Code: Terraform, Kustomize, Helm

Container Orchestration: Docker, Kubernetes

Work Experience

JBBKJ Groups Pvt Ltd   June 2024 - Present

DevOps Engineer (Independent Contractor)

- Developed 10+ reusable Terraform modules for GCP, standardizing deployments across 15+ microservices, cut provisioning time by 40% while enforcing security baselines.
- Built GitHub Actions pipelines integrated with Backstage, automating 90% of routine operations, reduced resolution time for platform tasks from hours to minutes.
- Engineered Backstage workflows for developer self service, slashed infrastructure interaction by 60%.
- Streamlined infrastructure processes, reduced deployment time from 2.5 hours to 30 minutes
- Managed Kubernetes manifests with Kustomize and integrated ArgoCD through Backstage for streamlined GitOps workflows.
- GCP, Backstage, Terraform, Github Action, Golang, Bash, GKE Autopilot, Google Secret Manager, CloudSQL, Cloud Storage, Memorystore(Redis), Pub/Sub, Cloud Run, Kustomize, ArgoCD, External Secret Operator

Projects

End-to-End Kubernetes Platform Automation   May 2025 - Ongoing

- Automated single-node Kubernetes cluster deployment using custom Bash scripts & Kubeadm.
- Engineered GitOps workflows with FluxCD for declarative management of infra/apps.
- Automated maintenance of core stack: Cert Manager, Traefik, MetalLB, Longhorn, Prometheus-Operator.
- Designed Grafana dashboards for real-time monitoring of storage, ingress, certificates, and cluster health.
- Kubernetes, FluxCD, Helm, Bash, Linux, Networking

Secure Service Exposure & Monitoring   May 2025 - Ongoing

- Implemented L7 routing using Traefik Gateway API & HTTPRoute with auto-provisioned wildcard SSL (cert-manager + ACME DNS-01).
- Deployed MetalLB for static IP assignment on home LAN, ensuring reliable service access.
- Containerized Pi-hole DNS(Docker) with Nginx reverse proxy for local DNS resolution
- Configured observability stack (Prometheus Operator, Grafana) with custom dashboards for Longhorn, Traefik, MetalLb and Cert-Manager.
- Traefik, Cert-Manager, MetalLB, Prometheus, Grafana, Docker, Kustomize

Certifications

Certified Kubernetes Administrator (CKA)   Apr 2025

Education

Shri Mata Vaishno Devi University Katra   Aug 2021 - Jun 2025
B.Tech in Electrical Engineering   *CGPA: 8.16/10*