Akshat Sinha
DevOps Engineer

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Technical Skills

Cloud:	**AWS** (EC2, ECR, EKS, RDS, ELB, S3, VPC, IAM), **GCP** (GKE, Cloud Storage, Artifact Registry), **Azure** (AKS, ACR)
Orchestration:	Kubernetes, Docker, Helm, KEDA, Argo Rollouts
CI/CD:	GitHub Actions, Devtron, Argo CD, Flux CD, GitOps Workflows
IaC & Scripting:	Terraform, Crossplane, Karpenter, Python, Bash
Monitoring:	Grafana, Prometheus, Pyroscope (eBPF), OpenTelemetry, VictoriaMetrics
Security:	Trivy, SonarQube, SSO, SOC-2, PostgreSQL RBAC, Air-gapped/Bastion Architectures

Experience

Devtron
DevOps Engineer-I
May 2024 - Present
Gurugram, Haryana

- Managed **100+ multi-cloud Kubernetes clusters** (AWS EKS, GCP GKE, Azure AKS) across 20-50 enterprise customers including Indian unicorns and fintechs, maintaining 99.95% uptime SLA.
- Owned end-to-end release engineering for Devtron OSS (20K+ downloads) and Enterprise Helm charts; maintain **15+ production charts** including PostgreSQL/Argo CD backups and 10+ microservice charts, reducing release cycles from 4 days to 1 day.
- Orchestrated zero-downtime migration of **20+ production Kubernetes clusters** (200+ nodes) from AKS to GKE and led **7 enterprise client migrations** from EC2 to EKS (10-12 services each), completing transitions within 1-week timeframes.
- **Engineered automated cluster provisioning system** for air-gapped/private environments using SSH tunneling and proxy cluster architecture, enabling secure management through bastion hosts while reducing manual setup time by 70%.
- Improved **resource efficiency by 25% through KEDA-based autoscaling** and OpenCost analysis, maintaining performance SLOs while reducing monthly infrastructure spend from 1L to 75K.
- Designed canary deployment pipelines using Argo Rollouts with progressive traffic shifts (25%→50%→75%→100%) and automated rollbacks on error thresholds for 10+ microservices.
- **Designed and implemented automated PostgreSQL migration system** from Bitnami PostgreSQL 11 to Official PostgreSQL 14 using automated jobs and checks, enabling seamless upgrades for 20K+ OSS users.
- **Implemented eBPF-based continuous profiling** with Pyroscope in Grafana, enabling low-overhead performance analysis and fast bottleneck identification across microservices without code instrumentation.
- Drove incident response **for 50-60+ monthly production escalations** across 100+ clusters, maintaining 95% first-response resolution rate and **30min MTTR**. Conducted blameless postmortems and implement preventive automation, reducing recurring incidents by 40%.
- Decreased client onboarding time by **50%** through migration documentation, technical support for stack upgrades, OSS to Enterprise conversion guides, and cross-functional collaboration with customer success teams.
- Implemented **PostgreSQL RBAC** with least-privilege controls and security audits, achieving SOC-2 compliance and reducing vulnerabilities by 40% across all managed environments.

Devtron
DevOps Engineer Intern
Jan 2024 - May 2024
Gurugram, Haryana

- Managed multi-cloud Kubernetes clusters and participated in 30+ production incident responses, gaining enterprise-scale infrastructure experience.
- Contributed to Helm chart maintenance, release automation, and GitOps workflow improvements, supporting transition to fully automated pipelines.

Projects

Kubernetes Authentication Guard | *Python, Operator SDK, K8s API*

- Developed Kubernetes operator to implement basic authentication by monitoring Deployments/StatefulSets/Argo Rollouts for annotations and mutating them with Nginx sidecar containers for access control.

PostgreSQL Migration Automation | *Kubernetes, PostgreSQL, Bash*

- Designed and implemented automated PostgreSQL migration system from Bitnami PostgreSQL 11 to Official PostgreSQL 14 using automated K8s jobs and checks, enabling seamless upgrades for 20K+ OSS users and ensuring Zero Downtime.

Education

Bachelor of Technology in Computer Science and Engineering
Trident Academy of Technology (CGPA: 8.08/10)
2020 - 2024
Bhubaneswar, Odisha