





AKASH PAWAR

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Summary

DevOps/SRE Engineer with 2.5+ years of experience building resilient, cloud-native systems on AWS and Azure. Proficient in Kubernetes automation, observability, GitOps workflows, and cloud cost optimization (achieved 35% savings). Demonstrated success in high-ownership startup environments—leading infrastructure design, multi-cloud migration, and SRE platform development.

Certifications

• [Certified Kubernetes Administrator](#) — [AWS Solutions Architect](#) — [AWS Certified Developer](#)

Key Achievements

Winner – CNCF Pune Hackathon 2025

June 2025

Cloud Native Hackathon - Team Kubetur

Pune, India

- Won 1st place building production-grade SRE platform with automated CI/CD, Kubernetes observability stack, and secure Karpenter-based autoscaling infrastructure.
- [Official CNCF Recognition](#)

Experience

DevOps Engineer

Dec 2022 – Present

Trames Private Limited

India, Remote

- **Cloud Migration & Cost Optimization:** Led complete AWS-to-Azure migration while optimizing performance & reducing operational complexity across systems. Achieved **35% total cost reduction** (\$5,500/month) through **spot instances**, auto-scaling, reserved instances, and automated VM management via **Lambda/EventBridge**.
- **Kubernetes Infrastructure:** Architected production EKS clusters using Terraform with multi-node groups, ALB controller, EBS CSI driver, and **IRSA** for secure workload identity management. Implemented **HPA** for resource-based pod scaling, **KEDA** for SQS-driven scaling, and **Karpenter** for infra autoscaling to handle dynamic workloads efficiently.
- **GitOps & CI/CD:** Built comprehensive GitOps pipeline using **ArgoCD** with app-of-apps pattern for micro-services deployment and **ESO** for external secrets management. Configured **GitHub Actions**, **AWS CodePipeline**, and **Azure DevOps** with automated deployment workflows and self-hosted runners.
- **Observability Stack:** Configured monitoring infrastructure using **Prometheus**, **Grafana**, **OpenSearch**, & **Fluent Bit** with custom dashboards for comprehensive workload analysis. Utilized **CloudWatch** and **Logz.io** for centralized logging and advanced analytics capabilities across environments.
- **Incident Management:** Built SRE workflows integrating **Prometheus**, **Alertmanager**, & **Slack** to monitor SLIs and trigger SLO-based alerts. Collaborated with developers to define SLIs and automate **blameless postmortems** via a Python CLI, fostering a reliability culture. Worked cross-functionally with backend and product teams to ensure stable deployments and rapid incident resolution.
- **Serverless & Automation:** Designed event-driven backends using **API Gateway**, **Lambda**, **S3**, **SQS**, & **SAM** for scalable processing workflows. Automated infrastructure provisioning with **Terraform** and **AWS CDK**. Built custom monitoring tools using **Python** and **Ansible** for comprehensive metrics tracking.
- **Database Migration:** Migrated prod PSQl databases from AWS to **Azure PostgreSQL Servers** ensuring high availability, data integrity, and seamless replication processes. Implemented minimal downtime migration strategies with complete data validation and performance optimization across all database systems.
- **Security & Networking:** Enforced **IAM** policies, **RBAC**, **IRSA**, and **AWS Identity Center** (SSO) across AWS cloud environments for comprehensive access control. Implemented **GuardDuty** for threat detection, **OpenVPN** for secure private resource access, **VPC peering** and **Kubernetes Network Policies** for pod traffic control and secure multi-application routing.
- **Advanced Networking & DNS Optimization:** Troubleshoot service disruptions by analyzing **UDP-based DNS lookups** and fallback **TCP resolution**, optimizing **ndots** and enforcing **FQDNs** to reduce DNS latency and network overhead in Kubernetes clusters.
- **Cost Analyzer Platform (MCP):** Engineered a modular cost intelligence system with a **context-driven protocol** (MCP) and backend APIs integrating **AWS Cost Explorer** via **boto3**. Designed for LLM integration (e.g., Claude) to enable natural language-driven spend analysis and insights.

- **Graceful Shutdown & Pod Lifecycle Management:** Troubleshoot and resolved deployment traffic leaks by coordinating `preStop` hooks, `SIGTERM` handling, and readiness probes. Ensured zero-downtime rollouts through ALB coordination and pod lifecycle debugging.

Technical Skills

- **Cloud Platforms:** AWS (EC2, EKS, Lambda, S3, IAM), Azure (VM, AKS, App Service), Kubernetes, Docker, Helm
- **Infrastructure as Code:** Terraform, AWS CDK
- **CI/CD & GitOps:** GitHub Actions, AWS CodePipeline, Azure DevOps, ArgoCD, Azure Pipeline
- **Programming & Scripting:** Python, Node.js, TypeScript, Bash, boto3, Basics of Golang
- **Monitoring & Observability:** Prometheus, Grafana, OpenSearch, Fluent Bit, CloudWatch, Logz.io
- **Databases & Messaging:** PostgreSQL, MongoDB, SQS, EventBridge, Redis
- **Security & Networking:** IAM, IRSA, RBAC, VPN, ALB/NLB, GuardDuty, VPC/VNet, Security Groups, NACLs
- **Tools & Technologies:** NGINX, ESO (External Secrets Operator), Karpenter, SAM, Ansible, Slack integrations

Education

MIT Academy of Engineering (MITAOE)

B.Tech in Electronics & Telecommunication, Cloud Computing Specialization

2019 – 2023

Pune, India