

# Akshay Narayan

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## Professional Summary

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- Senior DevOps / Cloud Platform Engineer with 7+ years of experience designing, migrating, and operating production-grade infrastructure across Azure and AWS. Specialized in Kubernetes, Terraform-based Infrastructure as Code, GitOps (Helm + ArgoCD), secure cloud networking, and high-availability system design. Proven track record of modernizing legacy deployment systems, leading large-scale cloud migrations, strengthening security posture, and improving platform reliability and scalability. Strong experience in database migrations, messaging systems, CI/CD automation, and technical leadership.

## Skills

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- **Cloud:** Microsoft Azure (AKS, App Gateway, Private Endpoints, Azure Firewall, Azure Communication Services), AWS (EC2, VPC, IAM, RDS, Lambda, S3, CloudWatch), Oracle Cloud
- **Infrastructure as Code:** Terraform (Reusable modules, multi-environment provisioning, state management)
- **Containers & Orchestration:** Kubernetes (AKS), Helm, ArgoCD (GitOps), Docker
- **CI/CD & Automation:** GitHub Actions, Jenkins, Ansible, Rundeck
- **Messaging & Caching:** RabbitMQ (CloudAMQP SaaS), Redis, Celery
- **Monitoring:** Prometheus, Grafana, ELK Stack, Azure Monitor, CloudWatch
- **Databases:** MySQL (Replication, Zero-Downtime Migration), PostgreSQL, MongoDB
- **Networking & Security:** Hub-Spoke Architecture, Private Endpoints, Azure Firewall, TLS (cert-manager), IAM
- **Web Servers:** Nginx, Nginx Ingress Controller, Apache
- **Operating Systems:** Linux (Production troubleshooting, performance tuning)

## Experience

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### Sr. DevOps Engineer

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- Led complete migration of on-prem infrastructure to Microsoft Azure, designing secure Hub-and-Spoke network topology using Terraform.
- Architected and deployed production-grade Azure Kubernetes Service clusters using Infrastructure as Code with dedicated clusters per environment.
- Designed reusable Terraform modules to standardize and scale infrastructure provisioning across environments.
- Migrated legacy Kubernetes deployment model (Ansible + Rundeck) to Helm-based deployments using GitOps workflow with ArgoCD integrated with GitHub Actions, improving release governance and deployment consistency.
- Migrated 150GB production MySQL databases from multiple on-prem servers to Azure Flexible Server using replication and controlled cutover with minimal downtime.
- Migrated Celery message broker from Redis to RabbitMQ SaaS (CloudAMQP), implementing Azure Private Endpoints for secure, private connectivity from AKS clusters.
- Replaced on-prem Postfix email infrastructure with Azure Communication Services to enhance reliability and eliminate server maintenance overhead.
- Implemented Horizontal Pod Autoscaler and Cluster Autoscaler to optimize compute usage and cost efficiency.
- Improved Kubernetes high availability by distributing worker nodes across multiple Availability Zones.
- Managed TLS lifecycle in Kubernetes using cert-manager with automated certificate renewal.
- Split monolithic repository into multiple repositories aligned with service ownership and implemented GitHub Actions-based CI/CD pipelines.
- Designed Azure Application Gateway, Route Tables, Firewall policies, and Private Endpoints to enforce secure network segmentation.
- Own end-to-end Azure infrastructure governance, release cycles, incident management, and production reliability.

- Lead and mentor 4–5 engineers, driving architectural improvements and operational best practices.

## Senior DevOps Engineer

March 2022 - November 2022

Velotio Technologies, India

- Designed, provisioned, and maintained AWS infrastructure using Terraform-based Infrastructure as Code across multiple environments (dev, staging, production).
- Built and optimized CI/CD pipelines using GitHub Actions to automate build, test, and deployment workflows for microservices-based applications.
- Managed containerized workloads using Docker and Kubernetes, including deployment rollouts, scaling strategies, and environment configuration management.
- Implemented infrastructure monitoring and alerting using Prometheus, Grafana, and AWS CloudWatch with custom dashboards and SLA-focused alerts.
- Developed AWS Lambda functions to generate custom metrics from CloudWatch logs and integrated them into monitoring pipelines for improved observability.
- Provisioned and managed networking components including VPCs, subnets, NAT gateways, route tables, and security groups following least-privilege security practices.
- Configured IAM roles, policies, and cross-account access to enforce secure access control and compliance standards.
- Implemented backup and disaster recovery strategies for critical services, including automated snapshot policies and cross-region replication.
- Optimized cloud infrastructure costs by right-sizing compute resources and implementing auto-scaling strategies.
- Automated environment setup and configuration management using Ansible for repeatable infrastructure deployments.
- Managed secure secret storage and rotation using Vault and AWS KMS.
- Troubleshoot production incidents, performed root cause analysis (RCA), and implemented preventive reliability improvements.
- Collaborated closely with development teams to improve deployment strategies, containerization standards, and infrastructure design best practices.

## DevOps Specialist

January 2021 - March 2022

Opstree Solutions Pvt. Ltd., India

- Provisioned AWS infrastructure (EC2, VPC, RDS, S3, ELB, Route53) using Terraform.
- Implemented CI/CD pipelines in Jenkins following industry best practices.
- Managed Kubernetes clusters and ELK stack deployments.
- Automated MySQL and MongoDB administrative tasks via Jenkins pipelines.
- Led zero-downtime MySQL upgrade from version 5 to 8 using Alibaba DTS services.
- Performed production troubleshooting, root cause analysis, and reliability improvements.

## DevOps Engineer

August 2018 - December 2020

Scaledesk Webstudio Pvt. Ltd., India

- Deployed and maintained Django, WordPress, and Magento applications in production environments.
- Managed AWS infrastructure including EC2, Auto Scaling, S3, ELB, and CloudFormation.
- Handled Linux troubleshooting, performance tuning, and server optimization.
- Configured and maintained LAMP and LEMP stacks.
- Managed IAM policies and CloudWatch-based monitoring solutions.

## Education

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### Diploma in Computer Engineering

September 2017

Guru Nanak Dev Institute of Technology, New Delhi

## Certifications

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- AWS Certified Solutions Architect – Associate (Credential ID: NPNSLNRC8FF4Q7SH)

## Languages

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- English, Hindi