

# ASHOK KUNCHALA

## AWS DevOps Engineer

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## PROFESSIONAL SUMMARY

AWS DevOps Engineer with 3+ years of hands-on experience in cloud infrastructure automation, Continuous Integration/Continuous Deployment (CI/CD) pipeline development, container orchestration, and Amazon Web Services (AWS) platform operations across Retail and E-commerce environments. Proficient in Terraform, Docker, Kubernetes, Amazon Elastic Container Service (ECS)/Amazon Elastic Kubernetes Service (EKS), Jenkins, GitHub Actions, and Python/Boto3 automation. Demonstrated expertise in building scalable deployment pipelines, implementing Infrastructure as Code (IaC), reducing infrastructure costs through Spot Instances and EC2 Fleet strategies, and improving operational efficiency with centralized monitoring and observability solutions. AWS Certified Cloud Practitioner with strong experience in Agile/Scrum methodologies, Service Level Agreement (SLA)/Service Level Objective (SLO)-based monitoring, and cloud security best practices including Identity and Access Management (IAM) policies, Security Groups, and encryption.

## TECHNICAL SKILLS

<b>Cloud Platforms &amp; AWS:</b>	Amazon Web Services (AWS), EC2, ECS, EKS, ECR, Lambda, VPC, IAM, S3, Route 53, CloudWatch, ALB, Auto Scaling, RDS, EFS, CloudFront, EC2 Fleet, Spot Instances, Security Groups, CloudTrail, WAF, NACLs
<b>CI/CD &amp; DevOps Tools:</b>	Jenkins, GitHub Actions, Argo CD, GitOps, Ansible, CI/CD
<b>Infrastructure as Code:</b>	Terraform, AWS CloudFormation, Packer
<b>Containerization &amp; Orchestration:</b>	Docker, Kubernetes (K8s), Helm, Amazon ECS, Amazon EKS
<b>Cost Optimization:</b>	AWS Spot Instances, EC2 Fleet, AWS Savings Plans, Auto Scaling, Right-sizing
<b>Monitoring &amp; Observability:</b>	CloudWatch, Grafana, Prometheus, Elasticsearch/OpenSearch, Kibana, OpsGenie, SLA/SLO Monitoring
<b>Automation &amp; Scripting:</b>	Python, Boto3, Shell Scripting, Bash
<b>Version Control &amp; OS:</b>	Git, GitHub, Linux, RHEL, Ubuntu, CentOS
<b>Methodologies:</b>	Agile, Scrum, GitOps, Incident Management, Cost Optimization, Security Best Practices

## WORK EXPERIENCE

### DEVOPS ENGINEER | LOYALTY METHODS PVT. LTD | HYDERABAD

Feb 2024 - Mar 2026

Product: RCX Tech

- Provisioned and managed scalable Amazon Web Services (AWS) infrastructure including Virtual Private Cloud (VPC), Amazon Elastic Compute Cloud (EC2), Amazon Elastic Container Service (ECS), Amazon Relational Database Service (RDS), Identity and Access Management (IAM), and Amazon Simple Storage Service (S3) using Terraform across development, staging, and production environments, ensuring environment consistency and repeatable Infrastructure as Code (IaC) deployments.
- Designed and deployed containerized workloads on Amazon Elastic Container Service (ECS) with both EC2 and Fargate launch types supporting 12 microservices, achieving 99.9% uptime for production services through high-availability architecture.
- Built and maintained Jenkins Continuous Integration/Continuous Deployment (CI/CD) pipelines integrated with GitHub, Docker, and Amazon Elastic Container Registry (ECR), automating build, test, and deployment workflows and reducing manual release effort by 40% while enabling 15+ weekly deployments across 3 environments.
- Managed full container lifecycle including building, tagging, security scanning using Trivy and Snyk, and pushing Docker images for 12 application services across multiple environments via Amazon Elastic Container Registry (ECR).
- Developed Python Boto3 and Shell automation scripts for Amazon Elastic Container Service (ECS) service validations, EC2/EBS cleanup, inventory auditing, and infrastructure health checks, reducing manual operational overhead by 6 hours per week across 20+ EC2 instances.

- Implemented AWS Lambda-based event-driven automation with Amazon CloudWatch Events and Amazon Simple Notification Service (SNS) for alert handling and infrastructure maintenance tasks.
- Configured centralized monitoring and alerting with Amazon CloudWatch, Grafana, and Kibana/Elasticsearch, improving Mean Time to Resolution (MTTR) by 30% with Service Level Agreement (SLA)/Service Level Objective (SLO)-based dashboards enabling faster root-cause analysis across 12 distributed microservices.
- Drove cloud cost optimization by implementing Spot Instances for non-production workloads, EC2 Fleet for diversified provisioning, and right-sized EC2/EBS resources, reducing overall AWS spend by an estimated 25%.
- Supported GitOps-driven deployments with Argo CD, validating Kubernetes manifests, monitoring rollout health, and managing environment-specific configurations across multiple deployment stages.
- Implemented automated backup and disaster recovery strategies using AWS Backup, S3 lifecycle policies, and cross-region replication, ensuring Recovery Point Objective (RPO)/Recovery Time Objective (RTO) compliance for critical data and services.
- Established container image security scanning pipeline using Trivy and Snyk integrated with Jenkins and Amazon Elastic Container Registry (ECR), reducing vulnerabilities by 60% across 12 application microservices.
- Configured Identity and Access Management (IAM) roles, policies, and permission boundaries following least-privilege principles, managing cross-account access and service-specific roles for ECS tasks, Lambda functions, and CI/CD pipelines.

## **DEVOPS ENGINEER | RELEVANCE LAB PVT. LTD | BANGALORE**

Oct 2022 - Oct 2023

*Project: Carene Tech*

- Provisioned and managed Amazon Web Services (AWS) infrastructure using Terraform and AWS CloudFormation across development, staging, and production environments, ensuring Infrastructure as Code (IaC)-driven consistency and auditability.
- Managed and scaled containerized workloads on Amazon Elastic Kubernetes Service (EKS) and Kubernetes (K8s) clusters supporting microservices architecture, including Deployments, Services, ConfigMaps, Secrets, Ingress controllers, and Helm charts across 8 namespaces.
- Developed Jenkins Continuous Integration/Continuous Deployment (CI/CD) pipelines and Ansible playbooks to automate application deployments and infrastructure configuration, reducing deployment cycle time by 35%.
- Created optimized Golden AMIs for EKS worker nodes using Packer, improving node provisioning speed and deployment consistency across the cluster fleet.
- Implemented AWS Lambda-based serverless automation and AWS CloudFormation templating for event-driven cloud operations and scheduled maintenance tasks.
- Established centralized monitoring and proactive alerting using Amazon CloudWatch, Grafana, Prometheus, and OpsGenie, monitoring 4 EKS clusters and reducing incident detection time by 40% with Service Level Agreement (SLA)-based alerting thresholds.
- Supported GitOps-based deployments on Amazon Elastic Kubernetes Service (EKS) using Argo CD, validating Kubernetes manifests, monitoring rollout health, and ensuring consistent delivery across environments.
- Managed Identity and Access Management (IAM) roles, Kubernetes Role-Based Access Control (RBAC) policies, and environment-specific configurations to maintain secure access controls and compliance with cloud security best practices.
- Participated in incident troubleshooting, root cause analysis, and platform reliability improvements within Agile/Scrum sprint cycles, contributing to 15% improvement in service availability over the engagement.

## **EDUCATION**

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**Bachelor of Commerce and Computers | Acharya Nagarjuna University, Guntur | 2021**

## **CERTIFICATIONS**

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- AWS Certified Cloud Practitioner
- AZ-900: Microsoft Azure Fundamentals
- GUVI Python Certification