SYED KASHIF ALI

DevOps Engineer | Cloud-Native & Distributed Systems
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PROFESSIONAL SUMMARY

Motivated fresher and aspiring Cloud & DevOps Engineer with a strong foundation in cloud-native application development, distributed systems, and large-scale automation. Hands-on experience designing, deploying, and troubleshooting microservices-based applications on Kubernetes (EKS), with working knowledge of networking, databases, and Internet-facing REST APIs. Practical exposure to integrating AI agents and LLM-based tooling (Claude via Amazon Bedrock) to automate workflows. Eager to learn from senior engineers, contribute to well-defined features and subcomponents, and grow into owning larger parts of a product over time.

TECHNICAL SKILLS

Programming & Scripting	Python, Java, Go, Bash, YAML, SQL
Cloud-Native Development	Docker, Kubernetes (EKS), Microservices, Distributed Systems, Helm, REST APIs
Cloud Platforms	AWS (EC2, S3, IAM, VPC, EBS, RDS, EKS, ECR), Oracle Cloud Infrastructure
AI & Automation Tools	Claude AI (Amazon Bedrock), AI Agent / MCP Integration, SonarQube, CodeAnt AI
DevOps & Orchestration	Jenkins, GitHub Actions, Argo CD, Terraform, Ansible
Monitoring	Prometheus, Grafana, Alertmanager, PagerDuty, Amazon CloudWatch, Datadog, Dynatrace
Security Services	AWS IAM, AWS WAF, AWS Secrets Manager, AWS Config, AWS KMS, AWS CloudTrail
Version Control	Git, GitHub, GitLab, GitHub Actions
Concepts	Distributed Systems, CI/CD, GitOps, Infrastructure as Code (IaC), RBAC, Microservices Networking, HPA, Ingress

EXPERIENCE

Cloud Engineer — Future Applications Technologies (Internship) *Nov 2025 – May 2026 · Beed, Maharashtra, India · Hybrid*

- Automated AWS infrastructure provisioning using Terraform, including custom VPCs and EC2 instances.
- Developed user data scripts to automate application deployment and Git repository cloning.
- Implemented EC2 shutdown automation to archive application code and logs to Amazon S3.
- Built a log rotation workflow using AWS Lambda to automatically export and archive CloudWatch logs to Amazon S3.
- Gained strong hands-on experience with AWS services, IaC, and DevOps automation workflows.

PROJECTS

Banking Application — Microservices Deployment on AWS EKS *Kubernetes (EKS) · Docker · Helm · Terraform · Jenkins · RDS · RBAC · Ingress · HPA*

- Deployed a microservices-based banking application comprising 20+ independent services on Amazon EKS with multiple worker nodes for scalable, isolated service management.
- Containerized each microservice using Docker and managed deployments via Helm charts with environment-specific configuration overrides for dev and prod.
- Configured cluster networking and validated cross-node pod communication, along with Kubernetes Services for inter-service communication and load balancing.
- Implemented Role-Based Access Control (RBAC) with namespaced service accounts and least-privilege policies for the banking application's microservices.
- Set up an NGINX Ingress controller with SSL termination for secure external traffic routing to the banking application.
- Configured Horizontal Pod Autoscaler (HPA) based on CPU and memory metrics for dynamic scaling of banking microservices.
- Integrated Amazon RDS as the backend database and configured secure, least-privilege connectivity between microservices and RDS instances.
- Automated build and deployment pipelines using Jenkins for continuous integration and delivery of banking application updates.

AI Agent Platform with Claude (MCP Architecture on AWS) *EC2 · Lambda · API Gateway · DynamoDB · SQS · MCP · Amazon Bedrock*

- Built an AI agent platform with an EC2-hosted frontend and a serverless Lambda backend, exposed via Amazon API Gateway for calling the MCP API.
- Developed an MCP (Model Context Protocol) server enabling AI agents to securely interact with external tools and APIs, with Claude AI running as the MCP client on EC2.
- Used Amazon DynamoDB to persist conversation state and agent context, and Amazon SQS to decouple and queue asynchronous agent tasks.
- Implemented prompt orchestration, context handling, and structured request/response flows to support agentic, automated workflows via Amazon Bedrock.
- Designed and secured REST APIs with authentication and input validation for agent-to-tool communication.
- Containerized the frontend using Docker and applied structured logging and error handling to debug and improve the reliability of AI agent responses.

CI/CD & GitOps Pipeline *Jenkins · GitHub Actions · Kubernetes · EKS · ECR · Argo CD · SonarQube · CodeAnt AI · Ansible*

- Designed end-to-end CI/CD pipelines using Jenkins for automated build, test, and deployment workflows.
- Built parallel CI workflows in GitHub Actions for linting, unit testing, and Docker image build/push on every pull request.
- Integrated SonarQube for static code analysis and CodeAnt AI for automated, AI-driven code review to catch issues before merge.
- Configured GitHub Actions to authenticate to AWS via OIDC (OpenID Connect) federated roles, eliminating long-lived access keys.
- Pushed versioned Docker images to Amazon ECR and deployed them to an Amazon EKS cluster as part of the automated release pipeline.
- Implemented Argo CD for GitOps-based continuous delivery and automated synchronization.
- Monitored application health using Prometheus and visualized system metrics via Grafana dashboards.

AWS 3-Tier Architecture with Terraform *Terraform · EC2 · S3 · IAM · VPC · ALB · Auto Scaling*

- Designed and provisioned a modular 3-tier AWS architecture (web, application, and database tiers) using reusable Terraform modules.
- Built a custom VPC with public subnets for the web tier and private subnets for the application and database tiers across multiple Availability Zones.
- Deployed an Application Load Balancer to distribute traffic to the web tier and Auto Scaling Groups to handle dynamic load.
- Configured IAM roles and policies following least-privilege principles and restricted Security Groups per tier.
- Deployed Docker workloads on EC2 instances and validated system performance and connectivity across all three tiers using CLI tools.

Ansible Configuration Management & Automation *Ansible · YAML · Linux · AWS EC2 · Ansible Vault*

- Authored modular Ansible playbooks to automate server provisioning, package installation, and OS hardening across multiple EC2 instances.
- Used Ansible Vault to securely manage secrets, SSH keys, and environment-specific credentials.
- Implemented dynamic inventory using the AWS EC2 plugin to automatically discover and target cloud instances.
- Reduced manual server configuration time by over 80% through fully automated playbook execution.

Linux Administration & Shell Scripting *Linux · Bash · Cron · systemd · SSH*

- Performed user and group management, file permission hardening, and SSH key-based authentication setup on Ubuntu servers.
- Wrote Bash scripts for automated log rotation, disk usage alerting, and service health monitoring via cron jobs.
- Configured firewall rules using UFW/iptables and implemented Fail2ban for brute-force protection.

Monitoring & Alerting Stack *Prometheus · Grafana · Alertmanager · PagerDuty · Amazon CloudWatch · Datadog · Dynatrace*

- Deployed a full observability stack: Prometheus for metrics collection, Grafana for dashboards, and Alertmanager for alert routing.
- Configured Node Exporter and cAdvisor to collect host-level and container-level metrics from Kubernetes nodes.
- Built custom Grafana dashboards for CPU, memory, pod health, request latency, and error rate visualization.
- Used Amazon CloudWatch for centralized logging, custom metrics, and alarm-based monitoring across AWS resources.
- Integrated PagerDuty with Alertmanager for on-call incident escalation and real-time alert notifications.
- Integrated Datadog agent for cloud-native APM, log aggregation, and infrastructure monitoring across AWS services.
- Used Dynatrace for AI-assisted full-stack observability, automatic root-cause analysis, and application performance monitoring.

CERTIFICATIONS

AWS Well-Architected Proficient	Amazon Web Services
Claude in Amazon Bedrock	Amazon Web Services
OCI 2025 Certified Foundations Associate	Oracle
LFS101: Introduction to Linux	The Linux Foundation
AWS Cloud Practitioner Essentials	AWS Skill Builder
AWS Cloud Quest	Amazon Web Services
AI Skills Fest 2026	Microsoft
Dynatrace Essentials	Dynatrace
HackFest 2026	Naresh i Technologies

EDUCATION

Bachelor of Computer Application 2022 – 2025
Savitribai Phule Pune University, Pune · CGPA: 8.3 / 10

Higher Secondary (12th Grade) 2022
Maharashtra State Board, Beed · 74%

DECLARATION

I hereby declare that the information provided above is true and correct to the best of my knowledge and belief.

Syed Kashif Ali