

KOUSHIK GURRALA

DEVOPS | SITE RELIABILITY | CLOUD ENGINEER

CONTACT

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SKILLS

- AWS, Azure
- Git, GitHub
- Jenkins
- GitHub Actions
- Argo CD
- Docker, Kubernetes
- Terraform, Shell scripting
- YAML
- Trivy, SonarQube
- Prometheus, Grafana
- CloudWatch
- Fluent Bit, Elasticsearch
- Kibana Dashboards
- Canary, Blue Green Deployments
- GitOps
- Logging/Monitoring
- Tracing & Telemetry
- Shell Scripting
- Event-Driven Automation



PROFILE

Site Reliability Engineer & AWS DevOps Practitioner with 3.8 years of experience in designing and automating CI/CD pipelines, implementing GitOps and designing high-availability infrastructure on Azure, including containerized microservices on EKS and enabling real-time observability using Prometheus, Grafana, Fluent Bit, Jaeger and Open Telemetry. Strong background in GitOps, secure container builds, infrastructure-as-code (Terraform) and implementing SLOs/SLIs through SRE best practices and reducing deployment errors.



WORK EXPERIENCE

Wipro Technologies

08/2021 - 04/2025

DevOps Engineer

- Hands-on experience in building CI/CD pipelines using Jenkins and GitHub Actions and Automated CI/CD workflows using n8n, integrating GitHub, Jenkins with Teams, and Outlook for streamlined DevOps.
- Developed n8n workflows pushing real-time build/deployment alerts to Teams & Outlook, improving incident response speed
- Optimized Jenkins CI/CD pipelines with Git, SonarQube, and Maven/MSBuild, reducing build failures by 25% and deployment time from 45 minutes to 10 minutes
- Standardized Distroless Docker images to improve security and minimize image size.
- Automated Docker image updates from AWS ECR using ArgoCD Image Updater for faster deployments.
- Integrated Trivy into CI pipelines, reducing high-severity Docker vulnerabilities by 90% before reaching production.
- Enabled zero-downtime releases on AWS EKS using Argo Rollouts with canary and blue-green strategies, cutting rollback time by 60% and improving release confidence.
- Modernized legacy workflows by implementing GitOps-based DevOps, enabling automated and scalable multi-environment deployments.
- Built AWS Lambda workflows automating repetitive operational tasks, reducing manual effort by 40% and saving ~\$2,000/month in cloud costs
- Provisioned AWS infrastructure (EC2, ASG, VPC, ECR) using Terraform with drift detection.
- Implemented end-to-end observability by configuring Prometheus to collect metrics from Kubernetes clusters and EC2. Visualized key performance using Grafana dashboards for monitoring and alerting.
- Configured Fluent Bit and Elasticsearch within the EFK stack to ingest, process, and centralize container logs from Kubernetes pods, enabling real-time log analysis and alerting through Kibana dashboards.
- Embedded Open Telemetry-based tracing in microservices architecture to capture request flow and latency across services, integrated with Jaeger to trace user transactions, latency and identify performance bottlenecks in real time.
- Embedded distributed tracing in microservices with Jaeger & OpenTelemetry, improving request latency by 25%.

EDUCATION

MTech in Software Systems 2022-2025
BITS Pilani

Bachelor of Science 2018-2021
Andhra University
GPA: 8.5 / 10.0

CERTIFICATIONS

- Pursuing AWS Certified DevOps Engineer (Expected Aug 2025)
- Be10x AI Automation Workshop.

IMPACT HIGHLIGHTS

- Strengthened production security by replacing standard base images with Distroless containers, aligning with **DevSecOps** principles and reducing attack surface, achieved **30%** cost savings in infrastructure resources.
- **Enhanced security posture** – Lowered high-severity vulnerabilities by 90% with Trivy-integrated pipelines and Distroless images.
- Developed an automated n8n workflow to push real-time notifications to Microsoft Teams and Outlook for code commits, build status, and deployments, boosting team awareness and incident response speed.
- **Faster deployment cycles** – Improved release frequency by 50% using ArgoCD Image Updater for automated container rollouts.
- Enhanced deployment velocity by implementing GitOps with Argo CD, streamlining Kubernetes rollouts and reducing manual intervention across environments.
- Built an end-to-end observability stack combining metrics (Prometheus), logs (EFK stack), and tracing (OpenTelemetry + Jaeger), enabling deep visibility into both Kubernetes and VM workloads and improving system reliability.
- Ensured high system reliability through SLO-based monitoring and alerting policies.
- **Streamlined incident response** – Enabled real-time alerts in Teams & Outlook, improving response speed and reducing downtime impact.