KOUSHIK GURRALA

DEVOPS | SITE RELIABLE | 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

CERTIFICATIONS

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

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 AWS, 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.
- Enabled real-time notifications in Teams and Outlook for key pipeline events, enhancing team visibility and response.
- Built and managed Jenkins pipelines with Git, SonarQube, and Maven/MSBuild for robust CI/CD and quality checks.
- 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 to automatically detect and fix Docker image vulnerabilities, enhancing production security posture and reducing risk exposure.
- Implemented canary and blue-green deployments on AWS EKS with Argo Rollouts for safer releases on Staging and Production environment.
- Modernized legacy workflows by implementing GitOps-based DevOps, enabling automated and scalable multi-environment deployments.
- Developed serverless workflows with AWS Lambda for automation and operational cost savings.
- 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.
- Ensured high system reliability through SLO-based monitoring and alerting policies

EDUCATION

MTech in Software Systems 2022-2025
BITS Pilani

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

IMPACT HIGHLIGHTS

• Strengthened production security by replacing standard base images with Distroless containers, aligning with DevSecOps best practices and Achieved 30% infrastructure cost savings by implementing Distroless containers
• Built an automated workflow in n8n to deliver real-time Microsoft Teams and Outlook notifications for code commits, build status, and deployments, significantly improving team visibility and enabling rapid incident response.
• Accelerated Kubernetes deployments using GitOps practices with Argo CD, significantly minimizing manual intervention.
• Built a unified observability stack (metrics, logs, and tracing) to monitor, analyze, and troubleshoot Kubernetes and VM workloads efficiently and improved system reliability