

KOUSHIK GURRALA

DEVOPS ENGINEER

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PROFESSIONAL SUMMARY

AWS DevOps Engineer with 3.8 years of hands-on experience in cloud infrastructure automation, CI/CD pipeline development, and secure containerized deployments. Expert in CI/CD (Jenkins, GitHub Actions, Argo CD), containerization (Docker, Kubernetes), and IaC with Terraform. Adept at leveraging AI-driven tools for vulnerability detection, cost optimization. Reduced deployment errors by 70% and infrastructure costs by 30% via automation. Enhanced predictive monitoring with Prometheus and Grafana. Proven ability to enhance system reliability, speed up deployments, and secure production environments at scale.

TECHNICAL SKILLS

- **Cloud Platforms:** AWS, Azure
- **CI/CD:** Jenkins, GitHub Actions, Argo CD
- **Containers & Orchestration:** Docker, Kubernetes, EKS
- **Security Tools:** SonarQube, Trivy
- **IaC & Automation:** Terraform, Shell scripting, YAML
- **Monitoring & Logging:** Prometheus, Grafana, AWS CloudWatch
- **DevOps & Cloud Practices:** Linux, GitOps, Blue/Green & Canary Deployments, Serverless(lambda)

PROFESSIONAL EXPERIENCE

Wipro Technologies , Hyderabad

Aug 2021 - Apr 2025

DevOps Engineer

- **CI/CD Pipelines:** Built and managed Jenkins/GitHub Actions pipelines for automated software delivery, integrating SonarQube for code analysis and Maven/MSBuild for builds.
- **GitOps & Kubernetes:** Automated K8s deployments using Argo CD, ensuring scalable and auditable releases.
- **Progressive Delivery:** Enabled Canary/blue-green deployments via Argo Rollouts for zero-downtime releases.
- **Image Management:** Automated Docker image updates with Argo CD Image Updater, pulling from Amazon ECR.
- **Security Hardening:** Scanned Docker images with Trivy (AI-driven CVE prioritization) and built secure Distrosless images.
- **AWS Infrastructure:** Provisioned EC2, ASG, ECR, VPC, and CloudWatch via Terraform with drift detection.
- **Monitoring:** Set up Prometheus/Grafana for K8s and CloudWatch for EC2, with automated alerts.
- **Serverless Automation:** Used Lambda for event-driven workflows (S3 uploads, cost-saving auto-shutdowns, transaction alerts via SNS/SES).

Key Project Outcomes:

- 30% cost cut via **Distroless containers** & optimized builds.
- Implemented Argo CD GitOps strategy resulting in faster and error-free deployments in Kubernetes cluster..
- Reduced vulnerabilities with **Trivy** & **SonarQube**.
- Reduced deployment failures with CI/CD pipeline standardization and improved build time using caching.
- Automated notifications post-transaction via Lambda & SNS/SES.

Project Engineer

- **Deployment Optimization & Automation:** Reduced deployment time by 40% and manual errors by 70% through optimized CI/CD pipelines, rollback mechanisms, and PowerShell automation on Azure VMs.
- **System Reliability & Monitoring:** Improved system reliability by 60% with auto-scaling and proactive monitoring solutions across environments.
- **Cost Efficiency & Containerization:** Achieved 30% cost savings by optimizing resources and adopting containerized, MSI-based installations for better scalability and maintainability.
- **Security & Compliance:** Enhanced security posture through integrated vulnerability scanning, compliance checks, and modernized deployment tooling like Trivy and WiX Toolset.
- **Legacy Modernization & Collaboration:** Transitioned legacy systems to modern DevOps workflows in collaboration with engineering teams, ensuring consistent, scalable, and automated multi-environment deployments.

Key Achievements:

Reduced deployment errors by 70% and infrastructure costs by 30% via automation and containerization.

Education

MTech in Software Systems

Apr 2021 - Dec 2025

BITS Pilani Software Systems (Work Integrated Learning Programme) Birla Institute of Technology and Science (BITS Pilani)

Bachelor of Science

Jun 2018 – Aug 2021

Aditya Degree College
CGPA: 8.5/10.0

ADDITIONAL INFORMATION

- **Languages:** English, Telugu, Hindi.
- **Certifications:** AWS Certified DevOps Engineer (Expected July 2025)
Be10x: AI Tools for Automation & Productivity
- **Awards/Activities:** Awarded Winner circle badges