

KOUSHIK GURRALA

DEVOPS ENGINEER

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PROFESSIONAL SUMMARY

AWS DevOps Engineer with 3.8 years of hands-on experience in CI/CD automation, cloud infrastructure, and secure containerized deployments. Proven track record in reducing deployment errors by 70% and cutting costs by 30% through automation and container optimization. Proficient in Jenkins, GitHub Actions, Kubernetes, Docker, Argo CD, and Terraform. Adept at implementing GitOps workflows, secure image management, and AI-powered vulnerability scanning. Experienced in scaling and monitoring production systems using Prometheus, Grafana, and Elasticsearch, Fluentd, Kibana (EFK Stack).

TECHNICAL SKILLS

- **Cloud Platforms:** AWS, Azure
- **CI/CD:** Jenkins, GitHub Actions, Argo CD
- **Containers & Orchestration:** Docker, Kubernetes, EKS
- **Security:** SonarQube, Trivy
- **IaC & Automation:** Terraform, Shell scripting, YAML
- **Monitoring & Logging:** Prometheus, Grafana, Cloud watch, Elasticsearch, Fluentd, Kibana (EFK Stack)

WORK EXPERIENCE

Wipro Technologies, Hyderabad

Aug 2021 - Apr 2025

DevOps Engineer

- **Automated CI/CD workflows** using **n8n**, integrating **GitHub**, **Jenkins**, **ArgoCD**, **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 security scanning** into CI pipelines to proactively detect and remediate vulnerabilities in Docker images, strengthening production security posture.
- **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.
- **Configured monitoring and logging** for **Kubernetes** with **Prometheus**, **Grafana**, and **EFK** for real-time insights.
- **Developed serverless workflows** with **AWS Lambda** for automation and **operational cost savings**.
- **Provisioned AWS infrastructure** (**EC2**, **ASG**, **VPC**, **ECR**) using **Terraform** with drift detection.

EDUCATION

MTech in Software Systems, BITS Pilani (WILP) -- Apr 2021 – Dec 2025

Bachelor of Science, Aditya Degree College -- Jun 2018 – Aug 2021 / *CGPA: 8.5/10*

CERTIFICATIONS

- AWS Certified DevOps Engineer (in progress)
- Be10x AI Automation Workshop.

KEY ACHIEVEMENTS

- 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
- Reduced environment drift and improved pipeline portability by building CI/CD workflows within **containerized build agents** and Improved build speed and reliability through pipeline optimization and intelligent caching strategies.
- 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.