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 EFK Stack.

**TECHNICAL SKILLS**

• **Cloud Platforms:** AWS, Azure

• **CI/CD:** Jenkins, GitHub Actions, Argo CD

• **Containers & Orchestration:** Docker, Kubernetes, AKS

• **Security:** SonarQube, Trivy

• **IaC & Automation:** Terraform, Shell scripting, YAML

• **Monitoring & Logging:** Prometheus, Grafana, Cloud watch, EFK Stack

**WORK EXPERIENCE**

## Wipro Technologies, Hyderabad Aug 2021 - Apr 2025

**DevOps Engineer**

* **Designed and maintained Jenkins**, integrating with Git Repos, SonarQube, and Maven/MSBuild for seamless CI/CD automation and quality checks.
* **Replaced traditional CI/CD agents with Docker containers** to ensure consistent, scalable, and isolated build environments across pipelines.
* **Introduced and standardized Distroless Docker images** in production pipelines to **enhance container security**, reduce image bloat, and **minimize attack surface**.
* **Automated Docker image updates from Elastic Container Registry (ECR)** using **Argo CD Image Updater**, improving deployment velocity and reducing manual interventions.
* **Integrated Trivy scanning into CI pipelines** to detect vulnerabilities in Docker images, strengthening the security posture of production workloads.
* **Implemented progressive delivery (canary and blue-green deployments)** on **Elastic Kubernetes cluster** on AWS using **Argo Rollouts**, increasing release scalability and reliability with minimal downtime.
* **Set up monitoring and logging for Kubernetes clusters** using **Prometheus**, **Grafana**, and **EFK stack**, enabling proactive troubleshooting and real-time insights across apps and VMs.
* **Built event-driven, serverless workflows using Lambda Functions** for automation tasks such as blob triggers, VM shutdowns, and custom alerts via Service Bus—leading to operational cost savings.
* **Provisioned and managed infrastructure on AWS** (EC2, Auto Scaling Groups, VPCs, ECR) using **Terraform with drift detection**, ensuring infrastructure consistency and auditability.
* **Reduced deployment time by 40%** and **manual errors by 70%** through optimized CI/CD workflows and PowerShell-based VM automation.
* **Improved system reliability by 60%** via **auto-scaling and proactive monitoring**, enhancing fault tolerance across multi-cloud environments.
* **Modernized legacy systems and workflows** by transitioning to GitOps-based DevOps practices in collaboration with engineering teams, achieving **automated, consistent, and scalable multi-environment deployments**.

**EDUCATION**

**M.Tech 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**

* **Reduced deployment errors by 70%** by standardizing CI/CD pipelines across environments.
* Strengthened production security by replacing standard base images with **Distroless containers**, aligning with DevSecOps best practices.
* Reduced environment drift and improved pipeline portability by building CI/CD workflows within **containerized build agents** and I**mproved build speed and reliability** through pipeline optimization and intelligent caching strategies.
* **Accelerated Kubernetes deployments** using GitOps practices with Argo CD, significantly minimizing manual intervention.
* **Achieved 30% infrastructure cost savings** by implementing Distroless containers and optimizing resource utilization during builds.
* Enabled real-time post-transaction alerts using Lamdba Functions with custom telemetry & alert rules.