KOUSHIK GURRALA

DEVOPS ENGINEER

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PROFESSIONAL SUMMARY

Azure 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, Azure Monitor, EFK Stack

WORK EXPERIENCE

Wipro Technologies, Hyderabad — Aug 2021 - Apr 2025

DevOps Engineer

- **Designed and maintained Jenkins and Azure DevOps pipelines**, integrating with Azure 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 Azure Container Registry (ACR)** 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)** using **Argo Rollouts**, increasing release 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 Azure 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 Azure** (VMs, Auto Scaling Groups, VPCs, ACR) 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 Improved 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.