KOUSHIK GURRALA

DevOps & Site Reliability Engineer

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PROFESSIONAL SUMMARY

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 OpenTelemetry. Strong background in GitOps, secure container builds, infrastructure-as-code (Terraform) and implementing SLOs/SLIs through SRE best practices and reducing deployment errors.

TECHNICAL SKILLS

- **Cloud Platforms:** AWS, Azure
- **CI/CD:** Jenkins, GitHub Actions, Argo CD
- **Containers & Orchestration:** Docker, Kubernetes, EKS
- **Security & Scanning:** Trivy, SonarQube, Distroless Images
- **IaC & Automation:** Terraform, Shell scripting, YAML
- **Monitoring & Logging:** Prometheus, Grafana, CloudWatch, Fluent Bit, Elasticsearch, Kibana
- **Deployment Strategies:** GitOps, Canary, Blue Green
- **DevOps Practices:** Git, GitOps, Agile, SRE, DevSecOps

WORK EXPERIENCE

Wipro Technologies, Hyderabad

Aug 2021 – Apr 2025, Hyderabad

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** 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**.
- 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, BITS Pilani (WILP) -- Apr 2021 – Dec 2025
Bachelor of Science, Aditya Degree College -- *Jun 2018 – Aug 2021 | CGPA: 8.5/10*

CERTIFICATIONS

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

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.