

# Bharath reddy Italapur

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## SUMMARY

Senior Cloud & DevOps Engineer with 9+ years of experience in AWS (primary) and Azure, specializing in Kubernetes, Terraform, CI/CD automation, and observability (ELK, Prometheus, Grafana). Proven ability to reduce deployment cycles by 60%, cut cloud costs 30%, and improve MTTR by 40%. Recent projects include building AI-enabled data pipelines with embeddings and vector search in OpenSearch, modernizing workflows with Python microservices, and automating data analytics with AWS Glue. Skilled at driving cloud migrations, scaling platforms, and ensuring platform reliability for Fortune-500 enterprises.

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## SKILLS

**Cloud:** AWS (EC2, S3, VPC, Route53, Lambda, MWAA, Glue, IAM), Azure (AKS, ACR, AAD, DevOps, Artifacts)

**Containers & Orchestration:** Openshift, Kubernetes (EKS, AKS), Helm, Rancher, Docker, Docker Swarm

**IaC & Config Mgmt:** Terraform, CloudFormation, Ansible, YAML, JSON

**CI/CD:** Jenkins, CloudBees, Azure DevOps, GitLab CI/CD

**Monitoring & Observability:** ELK/OpenSearch, CloudWatch, Grafana, Prometheus, Jaeger

**Programming & Development:** Python (FastAPI, Flask, Pandas), Shell, Bash, SQL, HTML, CSS, JS

**AI/ML & Data Engineering:** RAG pipelines, embeddings, vector DBs, MCPs (Model Context Protocols), LangChain/LangGraph, OpenSearch vector search, AWS Glue DataBrew, Lambda

**OS & Platforms:** Linux (CentOS, Ubuntu, RHEL), UNIX, Windows

**Collaboration:** Git, Bitbucket, Jira, ServiceNow

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## PROFESSIONAL EXPERIENCE

### TIAA (via Cognizant)

May 2023 – Present

#### Sr. Cloud DevOps Engineer

- Automated AWS infra with Terraform for 100+ workloads, reducing manual effort 70% and ensuring HA/fault tolerance.
- Migrated Airflow → AWS MWAA, cutting operational overhead 30% and standardizing DAG deployments.
- Implemented ELK/OpenSearch dashboards with ISM/ILM policies, reducing MTTR 44%.
- Converted 200+ CloudFormation templates → Terraform modules, achieving AWS 2.0 compliance.
- Developed Python microservices for ingestion & analytics pipelines integrated with AWS Glue DataBrew.
- Built AI-powered semantic search using OpenSearch + embeddings, enabling compliance teams to query millions of records in real time.
- Built “VFix,” an AI agent that fixes AWS vulnerabilities by auto-updating Terraform code via LangChain and LangGraph, cutting developer effort by over 60%.

**Environment:** AWS, Terraform, GitLab, Python, Airflow/MWAA, ELK/OpenSearch, Grafana, Docker, Linux

### Amdocs (via Sai Global Solutions)

Feb 2022 – May 2023

#### Sr. Cloud DevOps Engineer

- Deployed AKS clusters with Terraform, scaling 5G data services to handle 1M+ daily transactions.
- Automated CI/CD pipelines with Azure DevOps, reducing release cycle time 60%.
- Integrated ELK + Jaeger for distributed tracing, improving issue resolution speed 35%.
- Implemented Rancher for multi-cluster mgmt, improving uptime 99.9%.
- Containerized 5G apps with Helm & Ansible, ensuring reproducible deployments.

**Environment:** Azure, AKS, Terraform, Ansible, Rancher, ELK, Jaeger, Python, Linux