

UMESH GAIKWAD

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PROFESSIONAL SUMMARY

M.Tech CSA (IISc) engineer focused on reliable platform delivery at scale: multi-region EKS, Kubernetes operations, GitOps, and CI/CD (Jenkins, Argo CD). Emphasis on cost-aware design, observability, and automation with clear ownership. Seeking infrastructure, platform, or cloud engineering roles (IC).

SKILLS

Programming	Python, Bash; C (coursework)
Containers	Docker; Kubernetes (CKA); Helm; Karpenter (node/workload scaling)
Cloud	AWS (EKS, EC2, ALB/S3/IAM for workloads); GCP exposure (GKE, Dataproc)
IaC	Pulumi (primary at prior role), Terraform (modules / add-ons)
CI/CD	Jenkins, Bitbucket Pipelines, Argo CD; PR-reviewed Git workflows for infrastructure
Security	Kubernetes RBAC, workload identity patterns, image scanning in pipelines
Automation	REST/CLI tooling, Liquibase in pipelines, Slack-based deploy helpers
Observability	Metrics, logs, alerting; New Relic (NRQL); cost visibility (e.g., Kubecost)
Data (prior role)	Kafka, Spark
Learning	OpenShift (exploring)

EXPERIENCE

DevOps / Platform Engineer

Observe.AI

Sep 2024 – Present

Bengaluru, Karnataka, IN

- Managed 15+ multi-region EKS production clusters with 100+ microservices — node pool isolation, Karpenter autoscaling, PDBs, and resource right-sizing.
- Delivered 175+ production infrastructure changes with zero downtime through a structured change-management process.
- Owned Jenkins CI/CD on Kubernetes — multi-EKS agents, ALB ingress, Okta SSO, observability integrations, and pipeline tuning for faster builds.
- Built a Jira-gated Terraform plan/apply pipeline with AI-powered risk review, S3 plan storage, Slack notifications, and auto-cancellation — changes applied only after approval reaches the deployment window.
- Built an MCP-based AI DevOps assistant integrating LLMs with AWS cloud tooling and documentation — Slack interface with LangGraph agents and MCP for natural-language lookups and infrastructure guidance across accounts during incidents.
- Designed an approval-based Snowflake change workflow with Liquibase — PR validation, CODEOWNERS, CI/CD integration, and auditable schema changes.

DevOps Engineer

Amagi Media Labs

Aug 2023 – Sep 2024

Bengaluru, Karnataka, IN

- Shipped GitOps improvements with Argo CD — image scanning and policy checks before promotion to target environments.
- Ran staged Kubernetes upgrades and add-on rollouts with health checks and documented rollback paths.
- Rolled out AWS Load Balancer Controller and ingress for predictable routing to internal services.
- Built Slack-backed tooling for guarded, on-demand deploys with a lightweight audit trail (who/when/what).
- Partnered with SRE to add dashboards and alerts for PRs, releases, and cloud spend alongside on-call practices.
- Shipped infrastructure changes using the platform team's standardized Pulumi stacks.

Teaching Assistant
Indian Institute of Science

Aug 2022 – Apr 2023
Bengaluru

- E0 225 (*Design & Analysis of Algorithms*): tutorials and evaluation; cohort of 80+ students.
- E0 208 (*Computational Geometry*): evaluation and invigilation; cohort of 60+ students.

Big Data Engineer
Exadatum

July 2019 – Apr 2020
Pune, Maharashtra, IN

- Built a Docker-based Spark + Livy setup for notebook-driven jobs so the team could iterate before paying for Dataproc clusters.
- Consolidated related Java modules and added JUnit coverage around Kafka → GCS ingestion paths.
- Delivered POCs across Dataproc/Livy REST, GKE deploy scripts (logs to GCS), and multi-user JupyterHub (details on request).

SELECTED PUBLIC WORK

- **jenkins-k8s-agent-helm** — Jenkins inbound agents on Kubernetes (WebSocket, IRSA, optional Karpenter). github.com/SkaleKontrol/jenkins-k8s-agent-helm
- **ECR + Bottlerocket EBS snapshot** — encrypted volume snapshot with image pre-pull for faster EKS node bring-up. github.com/SkaleKontrol/ecr-bottlerocket-ebs-snapshot
- **klabctl** — kubeadm-based multi-node Kubernetes lab on Multipass. github.com/SkaleKontrol/klabctl

CERTIFICATIONS & ACHIEVEMENTS

- **GATE 2021**: Top 2% among ~200k candidates (GATE CS paper); admitted to IISc Bangalore (M.Tech CSA).
- [Google IT Automation with Python – Coursera Professional Certificate](#)
- [Certified Kubernetes Administrator \(CKA\)](#)

EDUCATION

Master of Technology – Computer Science and Automation, IISc Bangalore

July 2023

- Relevant coursework: Network and Distributed Systems Security, Principles of Distributed Software, Scalable Systems for Data Science.
- Coursework and readings on distributed systems, fault tolerance, storage, and messaging at scale.
- Teaching Assistant, *Computational Geometry*: graded work and supported 100+ students (UG, M.Tech, Ph.D.) with timely feedback on assignments.

Bachelor of Engineering - Computer Science, MGM's COE Nanded

July 2019

- Relevant coursework: Data Structures and Algorithms, Operating Systems, Computer Networks, Database Management Systems.
- C and Python used across coursework, labs, and small projects.