

# KIRAN GARUD

DevOps Engineer | AWS Certified Solutions Architect – Associate

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## PROFILE SUMMARY

AWS Certified Solutions Architect – Associate with a strong foundation in DevOps and cloud infrastructure engineering. Completed **self-driven projects** on AWS covering Kubernetes orchestration, CI/CD pipeline automation, GitOps deployment, infrastructure as code, and platform observability. Seeking an entry-level opportunity in DevOps, Platform Engineering, or Cloud Infrastructure Engineering to contribute and grow through real-world production experience.

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## TECHNICAL SKILLS

**DevOps & CI/CD:** CI/CD Pipelines · Jenkins · GitHub Actions · GitOps · ArgoCD

**Containers & Orchestration:** Docker · Kubernetes (EKS) · Helm · Rolling & Blue-Green Deployments

**Cloud & Infrastructure:** AWS (EKS, EC2, VPC, IAM, S3, Lambda, CloudWatch, Secrets Manager, ECR, ACM, ALB)

**IaC & Configuration Management:** Terraform · Ansible

**Observability & Monitoring:** Prometheus · Grafana · Loki · Fluent Bit · AlertManager · CloudWatch · Log & Metric Analysis · Slack Alerts · Email Notifications

**Security & Access Control:** IRSA · AWS Secrets Manager · IAM Least Privilege · Network Policies · TLS/SSL

**Scripting & Automation:** Linux · Shell Scripting · Python · Bash · YAML · JSON

**Databases:** PostgreSQL

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## PROJECTS

**LearnSphere — Cloud-Native DevOps Platform (EKS) |**

*Jun 2025 – Jan 2026*

**GitHub:** [github.com/kirangarudofficial/Learning-Hub-Version-10.3.5](https://github.com/kirangarudofficial/Learning-Hub-Version-10.3.5)

**Tech Stack:** AWS (EKS, EC2, VPC, IAM, S3, Lambda, ALB, ACM, Secrets Manager, ECR) · Terraform · Ansible · Jenkins · GitHub Actions · ArgoCD · Helm · Kubernetes · Docker · Prometheus · Grafana · Loki · Fluent Bit · AlertManager · PostgreSQL · MongoDB · Redis

Self-driven project building a production-style cloud-native microservices platform on AWS, implementing end-to-end DevOps practices including CI/CD automation, GitOps deployment, infrastructure as code, and observability.

- Architected and deployed an **EKS cluster** with namespace-based isolation and workload-specific node groups — enabling scalable and efficient microservices deployment
- Designed reusable **CI/CD pipelines using Jenkins Shared Library** — automating code validation, container builds, security scanning, and artifact delivery to ECR
- Implemented **GitOps workflows using ArgoCD and Helm** — ensuring consistent and automated Kubernetes deployments through declarative configuration
- Automated **database migration workflows using GitHub Actions** — enabling reliable and repeatable schema updates across PostgreSQL, MongoDB, and Redis
- Strengthened **platform security using IRSA and AWS Secrets Manager** — eliminating hardcoded credentials and centralising secure access across services
- Established **secure traffic routing and network segmentation** using ALB Ingress Controller for external access and CoreDNS for internal service discovery — enforcing namespace-level network policies to reduce attack surface
- Built **centralised observability** using Prometheus, Grafana, Loki, Fluent Bit, and AlertManager — enabling real-time monitoring, log aggregation, and faster issue resolution
- Optimised **infrastructure provisioning using modular Terraform** and Ansible for configuration management — reducing manual effort and improving environment consistency

**CodeMentor AI — Self-Hosted LLM Platform on EKS**

**GitHub:** [github.com/kirangarudofficial/code-mentor-LLM-deployment](https://github.com/kirangarudofficial/code-mentor-LLM-deployment)

**Tech Stack:** AWS (EKS, EC2, VPC, IAM, S3, ALB, ACM, CloudWatch) · Terraform (Modular) · Helm · ArgoCD · Nginx Ingress · Kubernetes · Docker · Ollama · Spot Instances · Prometheus · Grafana · Shell Scripting

Self-driven project deploying and operating a self-hosted AI coding assistant on AWS EKS — applying Kubernetes workload isolation, cost-optimised cloud infrastructure, and operational automation using open-source LLM tooling.

- Deployed a **self-hosted LLM platform** running Ollama with TinyLlama and Phi-2 models on EKS — enabling AI-assisted coding workflows without dependency on external API services
  - Designed a **cost-optimised dual node group architecture** using spot instances (t3.medium for frontend, t3.xlarge for LLM inference) with taints and tolerations — enforcing strict workload isolation between application and inference tiers
  - Provisioned **modular Terraform infrastructure** (VPC, EKS, IAM, ACM) with S3 backend and DynamoDB state locking — enabling safe and consistent infrastructure operations across deployments
  - Secured **platform access and communication** using Nginx Ingress Controller with AWS Certificate Manager for HTTPS termination and Basic Auth — ensuring encrypted and authenticated access to all endpoints
  - Engineered a **fully automated infrastructure lifecycle** using cron-based deploy and destroy pipelines — managing cloud costs within a defined budget through automated provisioning and teardown cycles
  - Built **13 operational shell scripts** covering health checks, cost estimation, log viewing, prerequisites validation, and cleanup automation — reducing manual operational overhead across the deployment lifecycle
  - Established **real-time platform visibility** using CloudWatch Container Insights and Grafana dashboards — enabling proactive monitoring of cluster health, node utilisation, and LLM inference performance
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## CERTIFICATIONS & EDUCATION

- AWS Certified Solutions Architect – Associate (Aug 2023 – Aug 2026)
  - Diploma in AWS with Python – 3RI Technologies Pvt Ltd. (2024)
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