

Avinash Rajure

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SUMMARY

DevOps and Platform Engineering focused software engineer with hands-on experience building and operating cloud-native infrastructure on AWS using Kubernetes, Terraform, Docker, GitHub Actions, and Argo CD. Proficient in Infrastructure as Code (IaC), GitOps-based continuous delivery, CI/CD pipeline automation, Kubernetes cluster operations, AWS networking, and container orchestration. Seeking junior DevOps Engineer, Cloud Engineer, Platform Engineer, and SRE roles.

EDUCATION

Gokaraju Rangaraju Institute of Engineering and Technology (GRIET) Hyderabad, India
Bachelor of Technology – Artificial Intelligence and Machine Learning – CGPA: 8.3/10 Aug 2022 – May 2026

TECHNICAL SKILLS

Cloud Platforms: Amazon Web Services (AWS), EKS, EC2, VPC, IAM, OIDC, IRSA, ALB, RDS PostgreSQL, S3, NAT Gateway, Elastic IP, Route Tables
Infrastructure as Code (IaC): Terraform, AWS Provider, VPC Provisioning, EKS Cluster Provisioning, IAM Role and Policy Automation, Helm Provider
Containers and Container Orchestration: Docker, Kubernetes, Amazon EKS, kind, kubeadm, containerd, Calico CNI, Kubernetes Gateway API, Helm, Kustomize
CI/CD and GitOps: GitHub Actions, Argo CD, GitOps Workflows, Docker Buildx, Immutable Image Tagging, Automated Deployment Pipelines, Continuous Integration, Continuous Delivery
Automation and Scripting: Bash Scripting, Ansible, Ansible Playbooks, Idempotent Infrastructure Automation
Monitoring and Observability: Prometheus, PromQL, Application Instrumentation, Metrics Collection
Backend Development: Node.js, Express.js, Django, REST APIs, JWT Authentication, Nginx
Databases: PostgreSQL, MongoDB, MySQL
Operating Systems: Linux (Ubuntu), Shell Scripting
Programming Languages: Python, JavaScript, Java
Methodologies: DevOps, Platform Engineering, SRE Principles, GitOps, Infrastructure Automation, Cloud-Native Architecture, Agile

EXPERIENCE

Software Development Engineer Intern April 2025 – Present
Alemeno Hyderabad, India

- Provisioned production-grade AWS infrastructure using **Terraform**, including custom VPCs, public/private/isolated subnets, NAT Gateway, EKS clusters, RDS PostgreSQL, IAM roles, and OIDC/IRSA integration for Kubernetes workload identity.
- Deployed and operated containerized applications on **Amazon EKS** using Kubernetes deployments, services, secrets, configmaps, and rolling update strategies.
- Configured **Kubernetes Gateway API** with AWS Load Balancer Controller (ALB) to manage scalable HTTP routing for cloud-native microservices.
- Implemented **IRSA (IAM Roles for Service Accounts)** enabling Kubernetes workloads to authenticate with AWS services without static credentials.
- Built **GitHub Actions CI/CD pipelines** with Docker Buildx layer caching, path-based selective builds, immutable SHA-based image tagging, and automated Docker Hub publishing.
- Configured **Argo CD** for GitOps-based continuous delivery, automated Kubernetes reconciliation, and rolling deployments on EKS clusters.
- Developed secure **Django** backend systems with authentication workflows for high-reliability verification pipelines.

Software Development Intern Jul 2025 – Oct 2025
Will2Care (IGENWILL Pvt. Ltd.) Hyderabad, India

- Built and optimized backend services using **Node.js** and **Express.js** for healthcare platform APIs serving production users.
- Deployed and managed applications on **AWS EC2**; configured **S3** for secure file storage and content distribution.

- Developed frontend components using **React** within an Agile team, delivering scalable features with security best practices.

Technical Lead – Free Software Wing

Nov 2023 – Mar 2025

Gokaraju Rangaraju Institute of Engineering and Technology (GRIET)

Hyderabad, India

- Led a 10–15 member team to build and operate a **MERN-stack** event platform handling 1,000+ registrations with real-time features using **Docker** deployments on **AWS**.
- Owned backend architecture, **CI/CD pipelines**, and incident response for national-level events including 24-hour hackathons and FOSSFest.
- Mentored 50+ students on full-stack development, code reviews, and DevOps practices.

PROJECTS

AWS EKS GitOps Infrastructure Platform | *Terraform, AWS EKS, RDS, GitHub Actions, Argo CD, Docker, Kubernetes*

- Provisioned production-style AWS infrastructure using **Terraform**: custom VPC, public/private/isolated subnets, NAT Gateway, Internet Gateway, ALB, Amazon EKS cluster, and RDS PostgreSQL in isolated database subnets.
- Implemented **IAM/OIDC integration** and **IRSA** for secure, least-privilege Kubernetes-to-AWS workload authentication without static credentials.
- Deployed containerized microservices on **Amazon EKS** using Kubernetes deployments, services, secrets, configmaps, and rolling updates.
- Configured **Kubernetes Gateway API** with AWS Load Balancer Controller for ALB-based HTTP/HTTPS traffic routing and shared ingress architecture.
- Built **GitHub Actions CI/CD pipelines** with Docker Buildx caching, selective path-based rebuilds, SHA-tagged immutable images, and automated Docker Hub publishing.
- Integrated **Argo CD** for GitOps continuous delivery: full pipeline from Git commit to automated Kubernetes rolling update via reconciliation.

Cloud-Native Kubernetes GitOps Platform | *Kubernetes, kind, Argo CD, Kustomize, Prometheus, GitHub Actions, Docker*

- Deployed frontend (Nginx) and backend (Node.js) as separate **Kubernetes deployments and services** on a local kind cluster with ingress-based path routing.
- Instrumented backend with **Prometheus** metrics (request count, HTTP status codes, latency histograms) and validated observability via **PromQL** queries.
- Implemented **GitOps delivery pipeline**: CI build via GitHub Actions → Kustomize image update → Argo CD reconciliation → cluster state convergence.
- Adopted **immutable SHA-based image tagging** strategy eliminating latest-tag deployment risks in rolling updates.
- Debugged service routing and ingress misconfigurations using systematic component isolation across Kubernetes networking layers.

AutoKube – Automated Kubernetes Cluster Provisioning | *Ansible, kubeadm, EC2, Calico CNI, containerd*

- Automated multi-node Kubernetes cluster bootstrap on **AWS EC2** using **Ansible playbooks** and **kubeadm** with zero manual intervention.
- Configured **containerd** as the container runtime and **Calico CNI** for pod networking and network policy enforcement.
- Implemented dynamic join-token coordination for automated worker node joining and designed fully idempotent playbooks for repeatable cluster provisioning.

DevOps Local Lab – Reproducible Local GitOps Platform | *kind, Argo CD, containerd, Bash*

- Built a production-like local Kubernetes environment using **kind** with automated lifecycle management via idempotent **Bash scripts**.
- Configured local container registry with **containerd** registry mirrors, eliminating manual image loading overhead.
- Integrated **Argo CD** for GitOps-based deployments and reconciliation-driven updates across local cluster environments.

CERTIFICATIONS

AWS Academy Cloud Foundations – Amazon Web Services

AWS Academy Machine Learning Foundations – Amazon Web Services

Google Developers AI/ML Virtual Internship – Google Developers