

MANAN JAIN

+91 9897236924 · jainmanan1804@gmail.com · manan.info · Bangalore, India

SUMMARY

Senior Platform & Cloud Engineer specializing in large-scale Kubernetes infrastructure on AWS. Experienced operating **150+ EKS clusters**, **~1,000 nodes**, and **30K+ running pods** supporting 40+ engineering teams. Built GPU infrastructure powering **500+ GPUs** for AI workloads, achieving **~80% utilization** and **~60% compute cost reduction**. Passionate about building scalable developer platforms through automation, GitOps, and cloud infrastructure design.

SKILLS

Cloud Platforms: AWS – EKS, ECS, EMR, EC2, S3, IAM, VPC

Container & Platform Engineering: Kubernetes, Docker, Helm, Cilium, Karpenter, Flyte, Container Networking, Cluster Operations
Infrastructure as Code: Terraform, Infrastructure Automation

CI/CD & GitOps: Argo CD, GitOps, TeamCity, AWS CodePipeline, CodeBuild, CodeDeploy, Bitbucket, Jenkins

Observability & Monitoring: Prometheus, Amazon Managed Prometheus, Grafana, Datadog, Splunk, Metrics & Alerting

Programming & Automation: Python, Shell Scripting

Data & Platform Components: Kafka, Redis, MinIO

Security & Platform Tools: Wiz, Sysdig, Cloud Security, Vulnerability Scanning

WORK EXPERIENCE

AIVAR INNOVATION

Bangalore, India

Senior DevOps Engineer

06/2026 – Present

- **KhiladiPro** — Supporting the engineering team on **Amazon EKS**, **Flyte**-based workflow orchestration, and **GPU orchestration** for ML workloads.

ZS ASSOCIATES

Pune, India

Senior Cloud Engineer

07/2024 – 06/2026

- Led platform enablement for application teams on Amazon EKS and architected a **Kubernetes-based LLM inference platform** leveraging Spot-backed GPUs. Optimized scheduling policies, fault tolerance, and retry strategies to maintain **~80% utilization across 500+ GPUs**, driving a **~60% reduction in compute cost** while sustaining large-scale batch processing.
- Implemented **Amazon Managed Prometheus and Grafana** for observability across **150+ EKS clusters**, and ran an internal uptime monitoring platform covering **2,500+ endpoints**. What started as basic monitoring evolved into a reliable alerting system spanning control plane, ingress, infrastructure, and application metrics. Trimmed metric ingestion aggressively to keep costs low while retaining the metrics that mattered.
- Designed a **centralized GitOps platform using Argo CD** to manage Kubernetes add-ons at scale, supporting **120+ applications across 150+ clusters**. Enabled seamless bulk deployments and integrated Argo CD Notifications across 100+ projects for operational excellence.
- Researched and deployed **50+ Kubernetes add-ons** including MinIO, Wiz, Matomo, Kafka, Redis, and Dgraph, along with core Kubernetes integrations such as the S3 and EFS CSI drivers, Step Functions, and DCGM Exporter.
- Prototyped and validated **EMR on EKS for Spark workloads** using Karpenter for dynamic scaling, focused on making job orchestration predictable and autoscaling responsive under variable batch workloads.
- Developed modular, application-focused **Terraform modules** supporting multi-tenant, multi-environment deployments. These modules now provision **80+ AWS resources through a single automated pipeline**, reducing one-off infrastructure work.

ZS ASSOCIATES

Pune, India

Cloud Engineer

09/2022 – 07/2024

- Deployed and operated **100+ applications on Amazon ECS** with fully automated CI/CD pipelines built on core AWS services. Much of the early work involved stabilizing pipelines that broke under parallel deployments and scale.
- Delivered **250+ application deployments on Amazon EKS** using TeamCity, Argo CD, Helm, and GitOps workflows, focused on making deployments repeatable and boring even as the number of teams and clusters grew.
- Owned deployment and operation of **20+ COTS platforms**, including Dependency-Track, Sysdig, and Argo CD across ECS and EKS, ensuring these systems met security, scalability, and compliance requirements before onboarding application teams.
- Built bulk-upgrade automation to patch and update **500+ CI/CD pipelines in parallel**, replacing manual, error-prone updates and significantly reducing rollout risk during tooling and dependency upgrades.
- Led multiple large-scale migrations, including **EC2 → ECS/EKS and ECS → EKS**, untangling legacy assumptions and helping teams adapt their applications to container-native patterns.
- Led the **Sysdig POC and enterprise rollout**, performing deep analysis of application runtime behavior and deploying Sysdig across **500+ products in roughly one month** using automated rollout and upgrade tooling.

ZS ASSOCIATES

Pune, India

Cloud Engineer Intern

11/2021 – 09/2022

- Owned day-to-day **AWS operations and platform lifecycle management**, and acted as an **escalation point for complex production issues** across infrastructure, operating systems, and application debugging that could not be resolved by runbooks alone.
- Built **server bootstrapping automation** for Windows and Linux, and wrote **cloud deployment standards and governance guidelines** to standardize application onboarding and avoid compliance drift.

EDUCATION

B.Tech, Computer Science & Engineering — MIT-ADT University, Pune

08/2022 · GPA: 7.9