

Adarsh Kumar

Platform Engineer | Cloud-Native Infrastructure

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Summary

Platform Engineer with 4.5+ years of experience building and operating cloud-native infrastructure, Kubernetes platforms, CI/CD pipelines, and distributed systems. Experienced in AWS, Terraform, observability, event-driven architectures, and reliability engineering, enabling scalable, secure, and highly available SaaS platforms.

Technical Skills

Cloud & Platform Engineering: AWS (EKS, ECR, EC2, S3, IAM, VPC), Kubernetes, Docker, Helm, Terraform, GitOps, Argo CD, Vault, NGINX, Linux

CI/CD & Developer Platforms: GitLab CI, GitHub Actions, Jenkins, Deployment Automation, Release Governance, Platform Tooling

Backend & Distributed Systems: Node.js, Express.js, FastAPI, Laravel (PHP), REST APIs, Microservices, Event-Driven Architecture, NATS JetStream, Async Processing, Dramatiq, spaCy, Keycloak

Databases & Storage: PostgreSQL, MySQL, Redis, MinIO

Observability & Reliability: OpenTelemetry (OTel), Prometheus, Grafana, Loki, HyperDX, Distributed Tracing, Centralized Logging, Alerting, CloudWatch

Programming & Automation: Python, TypeScript, JavaScript, Bash, Git

Systems & Networking: Linux Administration, Networking, Load Balancing, DNS, Reverse Proxies

AI Productivity Tools: ChatGPT, GitHub Copilot, Cursor, Gemini

Professional Experience

Infra & Platform Engineer, Secuvy (Hybrid - Hyderabad) Jan 2026 – Present

- Self-onboarded on a large-scale multi-cloud Kubernetes platform (AWS, on-prem) with minimal KT; documented architecture, deployment workflows, operational runbooks, and troubleshooting guides, reducing onboarding effort by ~40%.
- Designed and implemented end-to-end observability using distributed tracing, centralized logging, metrics, queue monitoring, dashboards, and alerting, significantly improving production debugging, RCA, and operational visibility.
- Resolved critical performance bottlenecks in ML and distributed processing workloads (Python, spaCy, Dramatiq), reducing latency by ~60% and increasing throughput by ~2x.
- Led adoption of NATS JetStream event-driven architecture, enabling scalable asynchronous communication, reliable message processing, retry mechanisms, and resilient service-to-service workflows.
- Improved software delivery and platform governance through CI/CD standardization, automated validation pipelines, security scanning, deployment controls, and failure-focused operational alerting.
- Built enterprise integrations and operational tooling including multi-tenant administration, distributed agent management, Active Directory connectivity, SMB/CIFS integrations, MySQL synchronization, and diagnostics frameworks for air-gapped deployments.

Software Engineer (DevOps & Platform), Softway Solutions (Remote - Bangalore, India) May 2023 – Nov 2025

- Achieved 99.99% uptime by containerizing services with Docker and deploying across multi-environment setups in AWS EKS.
- Implemented CI/CD pipelines using GitLab CI and Terraform-based IaC, reducing deployment time by 60%.
- Improved reliability and cost efficiency through EKS autoscaling, VPC optimization, CloudWatch observability, and 24/7 on-call incident handling.
- Developed and optimized backend APIs by refactoring slow endpoints and improving PostgreSQL/MySQL queries with indexing and cursor-based pagination.

- Designed asynchronous and data-intensive workflows using Redis (queues, caching) and integrated AWS IoT Core for real-time image/video control pipelines.

Full Stack & DevOps Engineer, InviGrid Co. (Remote - USA)

Jan 2022 – May 2023

- Managed production systems on AWS EC2 with GitHub Actions CI/CD pipelines, reducing release cycles by 75%.
- Built automated monitoring and alerting for uptime, latency, and API failures using CloudWatch and custom scripts.
- Migrated services to a two-tier cloud architecture, improving scalability while reducing infrastructure costs by 20%.
- Developed deployment automation for Node.js microservices, securing environments using IAM policies and VPC rules.
- Enhanced backend reliability by integrating AWS/GCP APIs, Auth0-protected endpoints, and asynchronous services using Redis and WebSockets for real-time analytics.

Projects

AI-Powered Security & Vulnerability Scanner

[Vulnerashield](#)

- Built DevSecOps scanning engine integrating OWASP ZAP, AI anomaly detection, and automated reporting.
- Containerized scanner workflows with Docker and deployed to Kubernetes for horizontal scaling.
- Added pipeline integration for CI/CD to block vulnerable builds using automated severity scoring.

Cloud Cost & Security Monitoring Dashboard

[CloudGuard](#)

- Implemented AWS cost monitoring, IAM drift detection, and security rule scanning.
- Integrated CloudWatch, Cost Explorer, and Security Hub APIs for real-time dashboards.
- Visualized risks and compliance issues, enabling teams to prevent misconfigurations proactively.

GitOps-Based Infrastructure & Application Deployment on EKS

[GitOps](#)

- Implemented GitOps-based delivery using Argo CD, GitHub Actions, and Terraform to provision and manage AWS EKS infrastructure.
- Designed multi-stage CI/CD pipelines for Terraform and application code with approval-based promotions.
- Automated Docker image build and publish, followed by Git-driven Kubernetes deployments to EKS.
- Enforced secure deployments using GitHub Secrets and environment-based configuration management.
- Enabled repeatable, auditable, and rollback-safe deployments by treating Git as the single source of truth.

Education

Bachelor of Technology - BCET, Durgapur

2017 – 2021

Certifications

- Azure AZ-400 (Microsoft Azure)
- Develop GenAI Apps with Gemini and Streamlit (Google Cloud)
- Decoding DevOps – From Basics to Advanced Projects with AI (Udemy)