

Vineet Pal Singh Rauniwal

Senior Solutions Architect

9+ Years | Kubernetes • AWS • Platform Engineering • MLOps

Bangalore, India
itsvineetpal@gmail.com
+91 94254-08453
[LinkedIn Profile](#)
CKA | AWS SAA Certified

PROFESSIONAL SUMMARY

Senior Solutions Architect with 9+ years of experience architecting scalable cloud-native and AI platforms to deliver software faster, more reliably, and at lower cost. Experienced in platform strategy, technical leadership, Kubernetes, AWS, developer platforms, observability, FinOps, and AI infrastructure. Delivered \$240K+ in annual infrastructure savings, led the migration of 70+ production microservices to EKS, and architected enterprise AI platforms including an LLM Gateway and AI-powered DevOps automation. Passionate about building secure, reliable, and cost-efficient infrastructure that accelerates engineering velocity and enables enterprise-scale AI adoption.



KEY ACHIEVEMENTS

- ▶ **Led AI platform transformation** by architecting an enterprise LLM Gateway and AI-powered DevOps Assistant, establishing governance, observability, and secure GenAI adoption across engineering teams.
- ▶ **Delivered ~\$240K in annual cloud infrastructure savings** through platform modernisation, FinOps initiatives, observability consolidation, Spot adoption, and resource optimisation.
- ▶ **Directed the migration of 70+ production microservices from ECS to Amazon EKS**, improving platform scalability while reducing **P99 latency by 60%** and achieving near-zero error rates during peak traffic.
- ▶ **Defined the enterprise observability strategy**, introducing **AIOps-driven alerting** and a unified telemetry platform that reduced alert fatigue, accelerated incident response, and improved platform reliability.
- ▶ **Scaled engineering operations** by leading three cross-functional Platform Engineering teams, driving hiring, engineering standards, platform strategy, and operational excellence across multiple product portfolios.
- ▶ **Enabled global platform expansion** through multi-region architecture, self-service developer platforms, zero-downtime cloud migrations, and resilient disaster recovery capabilities.

PROFESSIONAL EXPERIENCE

Senior DevOps Architect | **Cactus Communications**

(Technology)

July 2020 – Present

- ▶ **Developed an AI-powered DevOps Assistant** using FastAPI, LangGraph, and MCP servers, automating infrastructure and application troubleshooting, reducing engineering effort for incident diagnosis and improving mean time to resolution (MTTR).

- ▶ **Architected and deployed an enterprise LLM Gateway using LiteLLM**, centralising AI access across teams with governance, usage analytics, cost controls, and policy enforcement, enabling **secure adoption of GenAI while eliminating direct provider integrations and improving visibility into AI spend**.
- ▶ **Drove the AI platform strategy** as part of the core AI adoption team, defining engineering standards, governance models, success metrics, and adoption frameworks that enabled multiple engineering teams to safely integrate AI into their development workflows.
- ▶ **Led the adoption of AIOps-driven observability**, replacing static threshold-based alerting with context-aware anomaly detection, **reducing alert fatigue, improving signal-to-noise ratio, and accelerating incident response through lower MTTR**.
- ▶ **Delivered ~\$240K in annual infrastructure savings** by driving strategic cloud optimisation initiatives, including Spot adoption, platform modernisation, observability consolidation, and resource right-sizing.
- ▶ **Enabled multi-region platform architecture**, supporting business expansion into new geographies while improving application availability, resilience, and user latency.
- ▶ **Led three cross-functional Platform Engineering teams** across multiple product suites, driving hiring, budget planning, engineering excellence, and operational maturity.
- ▶ **Directed the migration of 70+ microservices from Amazon ECS to Kubernetes (EKS)**, improving platform scalability and resilience while reducing **P99 latency by 60%, P75 by ~30%, P50 by ~12%, and achieving near-zero error rates during peak traffic** through KEDA-based autoscaling.
- ▶ **Implemented a secure software supply chain** by integrating **SBOM generation, AWS KMS-backed Cosign image signing, and Keyverno policy enforcement**, ensuring only trusted container images are deployed to Kubernetes.
- ▶ **Defined the enterprise observability strategy**, implementing a unified stack with Grafana, Prometheus/Mimir, Tempo, Loki, Faro, OpenTelemetry, and Fluent Bit to standardise monitoring, logging, and distributed tracing.
- ▶ **Built and operated scalable data processing platforms** on Amazon EMR and Elasticsearch, enabling reliable, continuous data ingestion and analytics workloads.
- ▶ **Led the evaluation, commercial negotiation, and rollout of Kloudfuse**, replacing Datadog to significantly reduce observability stack cost by 35% while enhancing observability capabilities.
- ▶ **Executed zero-downtime AWS account migrations at enterprise scale**, leveraging Terraform to automate cross-account infrastructure migration with no production disruption.
- ▶ **Established a self-service developer platform using Backstage**, reducing DevOps dependencies, accelerating service onboarding, and improving developer productivity across distributed engineering teams.
- ▶ **Designed and operationalised the Business Continuity and Disaster Recovery (BCP/DR) strategy** for mission-critical production systems, strengthening organisational resilience and recovery readiness.
- ▶ **Championed FinOps adoption** by implementing Kubecost and AWS Cost Explorer with cost attribution dashboards, improving infrastructure cost transparency, accountability, and optimisation across engineering teams.

Senior DevOps Engineer | **Pharmeasy** (Healthcare)

February 2020 – July 2020

- ▶ Set up and migrated platform services to Kubernetes on AWS; configured Redis, Memcached, Kafka, PostgreSQL, and MySQL with Terraform and Ansible
- ▶ Managed and deployed 20+ microservices using Helm charts; maintained CI-CD pipelines across DevOps and Data Engineering teams

DevOps & Security Engineer | **OYO** (Hospitality)

March 2019 – January 2020

- ▶ Core member of the Monolith to Microservices migration team; led database migration with near-zero downtime
- ▶ Re-architected the production Elastic Beanstalk infrastructure using Spot Instances, reducing cloud infrastructure costs by approximately 40%.
- ▶ Managed Akamai traffic routing, WAF policies, and CDN configurations to ensure secure, high-performance delivery of high-traffic production applications.

- ▶ AGL, Australia: Built compliance policies with Python + Cloud Custodian; automated Golden AMI patch management with Ansible and AWS Inspector
- ▶ EDF Energy, France: Automated operational tasks with Python/Shell/Ansible; orchestrated infra with Terraform and CloudFormation

TECHNICAL SKILLS

Cloud	AWS (EKS, ECS, EC2, VPC, IAM, Route53, Lambda, RDS, DynamoDB, S3, CloudFront, WAF, Step Functions)
Platform Engineering	Kubernetes (CKA), Docker, Helm, ArgoCD, Jenkins, GitOps, KEDA
IaC (Infrastructure as Code)	Terraform, CloudFormation, Ansible, Packer
Developer Platform	Backstage, Internal Developer Platforms (IDP)
Observability	Grafana, Prometheus, Loki, Tempo, Mimir, OpenTelemetry, Fluent Bit, Kloudfuse, Datadog, PagerDuty
AI Platform & LLMops	LiteLLM, LangGraph, Langfuse, AWS Bedrock, MCP Servers, GPU Workloads (Kubernetes), vLLM, DCGM Exporter
Languages	Python, Bash, Groovy, Go (Basic), FastAPI
Databases	PostgreSQL, MySQL, DynamoDB, OpenSearch, Elasticsearch
Security	Cosign, SBOM, Kyverno, AWS KMS, AWS WAF, Akamai, Prisma Cloud, IAM
Networking	VPC Design, DNS, CDN, ALB/NLB, NGINX, Service Mesh
Linux	RHEL, Ubuntu, Amazon Linux

CERTIFICATIONS

 Certified Kubernetes Administrator (CKA) CNCF - Cloud Native Computing Foundation	 AWS Certified Solutions Architect – Associate Amazon Web Services - In Progress: AWS CS - Specialty
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EDUCATION

Bachelor of Engineering - RGPV University, Bhopal

2012 – 2016

CURRENT LEARNING & GROWTH AREAS

- ▶ AI/ML Infrastructure: MLflow, Kubeflow, LLM inference serving (vLLM)
- ▶ Security Shift-Left: Falco for runtime security in Kubernetes
- ▶ Next Certification Target: AWS Certified Security - Specialty