TAMILVANAN GOWRAN

DevOps Engineer — Cloud Infrastructure, CI/CD & ML Workloads

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PROFESSIONAL SUMMARY

DevOps Engineer with 3 years 10 months of experience designing and operating production-grade infrastructure across AWS, GCP, and Azure. Hands-on expertise in Kubernetes (EKS/AKS/GKE), Docker, CI/CD pipelines (GitHub Actions, ArgoCD, Azure Pipelines), and Terraform-driven IaC. Experienced in VPC-isolated, secure enterprise deployments with strong networking, IAM/RBAC, and secrets management — well-suited for privacy-sensitive AI workloads. Actively building GPU infrastructure and ML workload deployment skills. Key outcomes: 40% faster deployments, 99.9%+ stability, 30-40% MTTR reduction, 15-30% cloud cost savings.

CORE COMPETENCIES

Cloud Platforms:	AWS (EKS, EC2, VPC, S3, IAM, Security Groups) | GCP (GKE, Compute Engine, IAM, Secret Manager) | Azure (AKS, VNet, Key Vault, Pipelines)
Kubernetes & Docker:	EKS/AKS/GKE, Kubeadm, Docker, Helm, RBAC, HPA/VPA, Ingress, StatefulSets — production cluster administration and multi-tenant workload isolation
CI/CD & GitOps:	GitHub Actions, Azure Pipelines, Jenkins, ArgoCD — end-to-end automated build, test, and deployment pipelines across multi-cloud environments
IaC & Automation:	Terraform, Ansible, ARM Templates, CloudFormation — reproducible, drift-free infrastructure provisioning across AWS, Azure, and GCP
Networking & Security:	VPCs, VNets, subnets, security groups, private endpoints, IAM/RBAC, Secrets Management, container image scanning, VPC-isolated enterprise deployments
Observability:	Prometheus, Grafana, ELK Stack — metrics, logs, alerting, 20+ custom dashboards; AIOps-ready anomaly detection and predictive alerting foundations
ML/AI Infrastructure:	GPU-enabled infrastructure, ML inference workload deployment, AIOps tooling, RAG pipelines, agentic AI workflows
Scripting:	Python, Bash — operational automation, infrastructure tooling

PROFESSIONAL EXPERIENCE

DevOps / SRE Engineer | Increff Dec 2024 – Present

- Own design, provisioning, and operation of GCP/GKE production infrastructure — including VPC networking, IAM, security groups, private endpoints, and namespace RBAC for secure multi-tenant service isolation.
- Architected GitOps CI/CD pipelines (ArgoCD, GitHub Actions) from code integration through automated deployment across multiple client environments, reducing deployment time by 40% while maintaining 99.9%+ stability.
- Containerise and orchestrate microservices on Kubernetes (GKE) with HPA/VPA autoscaling, private Docker registries, and vulnerability scanning for supply-chain compliance.
- Built Prometheus/Grafana observability stack (metrics, logs, alerting) reducing MTTR by 30-40% through proactive pattern-based detection applicable to AI-driven anomaly detection pipelines.
- Drive GCP workload right-sizing and cost optimisation, delivering 20-25% infrastructure cost reduction across OMS, WMS, and CIMS production platforms.

DevOps Engineer | Mastec Quadgen Sep 2022 – Dec 2024

- Architected end-to-end CI/CD pipelines on Azure DevOps (Azure Pipelines, GitHub Actions), automating build, test, and release workflows across multi-cloud environments for reliable software delivery.
- Led Terraform IaC strategy achieving 100% reproducible infrastructure across AWS and Azure — VPCs, subnets, security groups, IAM, and Kubernetes clusters — eliminating drift and cutting setup time by 70%.
- Designed production Kubernetes manifests (Deployments, StatefulSets, Ingress, PV/PVC) with optimised resource allocation for high availability and fault-tolerant containerised service operations.

- Architected Prometheus/Grafana monitoring and alerting platform with 20+ custom dashboards, reducing MTTR by 30-40% and driving 15-30% cloud cost savings through resource right-sizing.
- Collaborated with engineering and security teams to enforce networking best practices, maintain infrastructure documentation, and improve platform resilience across multi-cloud environments.

KEY PROJECTS

VPC-Isolated GitOps CI/CD Platform | GCP, ArgoCD, GitHub Actions, Kubernetes
Designed GitOps-driven deployment platform with full VPC isolation, RBAC, and private endpoint controls — 40% faster deployments, zero downtime, and full audit traceability for secure enterprise workloads.

Kubernetes Multi-Tenant Production Clusters | EKS/GKE, Helm, Kubeadm, RBAC
Architected clusters supporting 50+ containerised microservices with workload isolation, 35% improved resource utilisation, HPA/VPA autoscaling, and GPU-ready deployment patterns.

Terraform IaC Migration | Terraform, AWS, Azure, GCP
Migrated manual provisioning to Terraform across all three clouds — VPCs, security groups, IAM, Kubernetes — eliminating drift and reducing setup from weeks to minutes.

AIOps-Ready Observability Platform | Prometheus, Grafana, ELK
Built centralised monitoring/logging/alerting platform with 20+ dashboards providing the metrics and traces foundation for AI-driven anomaly detection; reduced MTTR by 30-40%.

TECHNICAL SKILLS

Cloud:	AWS, GCP, Azure
Kubernetes:	EKS, AKS, GKE, Kubeadm, Helm, ArgoCD, HPA/VPA, RBAC, Ingress
CI/CD:	GitHub Actions, Azure Pipelines, Jenkins, ArgoCD, GitOps
IaC:	Terraform, Ansible, ARM Templates, CloudFormation
Containers:	Docker, Multi-Stage Builds, Private Registries, Image Scanning
Networking/Security:	VPCs, Security Groups, Private Endpoints, IAM/RBAC, Secrets Management
Observability:	Prometheus, Grafana, ELK Stack
ML Infrastructure:	GPU Workloads, ML Inference Pipelines, AIOps, RAG Pipelines
Scripting:	Python, Bash

EDUCATION

B.E. Computer Science | KPR Institute of Engineering and Technology | 2018 – 2022

CERTIFICATIONS & AWARDS

- Microsoft Certified: Azure Administrator
- Microsoft Certified: Azure Fundamentals
- Red Hat Certified System Administrator (RHCSA)
- Spot Award — Outstanding Performance in Automation Deployment | Increff