PAVAN KALYAN PENCHIKALAPATI
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PROFESSIONAL SUMMARY

Certified Multi-Cloud DevOps Engineer with 3.11 years of experience in infrastructure automation, CI/CD, and production monitoring across Azure and GCP. Skilled in managing Kubernetes-based microservices, GitOps deployments, and resolving live issues using Splunk, Grafana, and Prometheus. Proficient in Terraform, Docker, Kubernetes (AKS/GKE), CI/CD pipelines (Azure DevOps, GitLab), and monitoring tools. Adept at delivering scalable, secure, and cost-efficient solutions in high-availability environments.

PROFESSIONAL EXPERIENCE

DevOps Engineer
Softic Digitech Pvt Ltd, Hyderabad
August 2021 – Present

- **Provisioned and managed scalable infrastructure on Azure and GCP using Terraform with modular code.**
- **Built and maintained Kubernetes clusters (AKS, GKE) for containerized workloads using StatefulSets, Deployments, ConfigMaps, and Secrets.**
- **Implemented CI/CD pipelines using Azure DevOps and GitLab CI for microservices deployment with Docker, Helm, and Artifact Registries (ACR, GAR).**
- **Automated cloud resource provisioning, image builds, artifact pushing, Helm chart deployments, and environment promotions.**
- **Integrated Prometheus, Grafana, and Splunk for proactive monitoring, alerting, and root cause analysis.**
- **Performed production deployments, rollback operations, horizontal/vertical scaling, and on-call incident management.**
- **Designed GitOps strategies using Azure Repos and GitHub with approvals, branching, and tagging standards.**
- **Developed shell/Python scripts for automated backups, alerts, health checks, and secrets rotation.**
- **Collaborated with application teams for resource optimization, logging standards, and cost control mechanisms.**

CERTIFICATIONS

- **Microsoft Certified: Azure Administrator Associate (AZ-104)**
- **Microsoft Certified: Azure DevOps Engineer Expert (AZ-400)**

TECHNICAL SKILLS

Category	**Tools/Technologies**
Cloud Platforms	Azure, GCP, AWS
Infrastructure as Code	Terraform
CI/CD Tools	Azure DevOps, GitHub Actions, GitLab CI
Containerization	Docker
Orchestration	Kubernetes (AKS, GKE)
Monitoring & Logging	Splunk, Prometheus, Grafana
Scripting	Python
Version Control	Git, Azure Repos, GitHub
Artifact Repositories	Azure Container Registry, Google Artifact Registry
Web Servers	NGINX, Apache Tomcat
Security & Compliance	Key Vault, Trivy, SonarQube, Kubernetes RBAC

PROJECTS

Project 1: Cloud DevOps Operations & Monitoring – Felix Solutions

Tools & Technologies: Azure, Azure DevOps, Terraform, AKS, Docker, ACR, Helm, Azure Repos, Oracle DB, ODI, Postman, NGINX, Splunk, AppDynamics, Grafana

Responsibilities:

- Provisioned **Azure** infrastructure using **Terraform** modules including **VNets**, **AKS**, **NSGs**, and **ACR**.
- Deployed microservices to **AKS** using **Helm** with persistent volumes and service mesh integration.
- Implemented **NGINX Ingress** with path-based routing and **TLS** termination.
- Developed robust **CI/CD** pipelines using **Azure DevOps** for build/test/deploy of containerized apps.

- Integrated **Splunk** and **AppDynamics** to track API failures (499/500), latency spikes, and memory leaks.
- Set up **Grafana** dashboards to monitor **AKS** resource usage, **pod health**, and application performance.
- Automated **failover**, **rollback**, **scaling**, and scheduled log cleanup operations.
- Participated in root cause analysis for **production outages** and drove remediation planning.
- Supported security hardening with **RBAC policies, Key Vault integration**, and **namespace**-level controls.

Project 2: Cloud-Native Platform – 360world

Tools & Technologies: GCP, GitLab CI, Terraform, GKE, Docker, GAR, GitHub, Maven, Istio, Postman, Prometheus, Grafana

Responsibilities:

- Provisioned **GCP** infrastructure using **Terraform** for **GKE**, Cloud NAT, Subnets, Firewalls, and IAM.
- Built GitLab CI/CD pipelines for image builds, **vulnerability scans (Trivy),** and Helm-based deployments.
- Deployed and managed **gRPC** microservices with Istio service mesh over GKE for secured inter-service traffic.
- Designed secure Ingress with **HTTPS**, **TLS** secrets, and routing rules for **gRPC** services.
- Implemented **Prometheus** exporters to monitor gRPC metrics including latency, request volume, and error rates.
- Configured alerts in **Grafana** for performance degradation, **pod failures**, and node saturation.
- Developed health check scripts and integrated **readiness/liveness probes** to improve pod reliability.
- Optimized container **resource limits/requests** to improve GKE node utilization.
- Executed **blue-green deployments** and **canary rollouts** for production changes with automated verification.

EDUCATION

Bachelor of Commerce (B. Com) – Computer Applications
Rayalaseema University, Andhra Pradesh – 2021

DECLARATION

I hereby declare that the above information is true and correct to the best of my knowledge and belief.

Place: Hyderabad **Signature:** Pavan Kalyan Penchikalapati