

## Pavan Parupalli

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## DEVOPS ENGINEER | Azure DevOps | Terraform | Kubernetes | Helm | Ansible Summary:

Results-driven DevOps Engineer with proven expertise in **deploying, scaling, and securing enterprise workloads** on Red Hat OpenShift and Azure Kubernetes Service (AKS). Skilled in **CI/CD automation, GitOps workflows, infrastructure as code (IaC)**, and container orchestration. Adept at integrating **Terraform, Ansible, Helm, and Azure DevOps** to deliver **scalable, secure, and cost-optimized hybrid cloud solutions**.

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### Core Competencies

- **Cloud Platforms:** Azure, OpenShift, AWS
  - **CI/CD & Automation:** Azure DevOps, GitLab, Jenkins, GitOps
  - **Containerization:** Kubernetes, Helm, Docker, OpenShift Templates
  - **Infrastructure as Code:** Terraform, ARM/Bicep, Ansible
  - **Monitoring & Security:** Prometheus, Grafana, Azure Monitor, SonarQube, OWASP DC, Key Vault
  - **Deployment Strategies:** Blue-Green, Canary, Rolling Updates
  - **Scripting:** Bash, PowerShell, Azure CLI
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### Professional Achievements

- Reduced infrastructure provisioning time by **35%** using Terraform modules and automated CI/CD workflows.
  - Achieved **99.9% uptime** for Kubernetes-based workloads through automated scaling, self-healing configurations, and robust monitoring.
  - Reduced manual deployment efforts by **50%** using Ansible automation across multi-environment setups.
  - Cut Azure cloud operational costs by **20–25%** through cost optimization, rightsizing, and resource governance.
  - Accelerated software delivery by **40%** by integrating PR-based CI/CD pipelines with quality gates and security scans.
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### Professional Experience

#### Project 1: Cloud-Native Application Deployment & CI/CD Automation

**Client:** HSBC | **Role:** Azure DevOps Engineer | **Jan 2023 – Present**

**Tech Stack:** Azure, AKS, Azure DevOps, Terraform, Helm, Ansible, Git, Azure Key Vault, Azure Monitor, App Gateway, App Insights, Linux

#### Key Contributions:

- Provisioned and configured **OpenShift OCP 4.x clusters** (IPI & UPI) on hybrid infrastructure.

- Automated **microservices deployments** using Helm charts & OpenShift Templates with consistent dev/QA/prod workflows.
  - Integrated **GitLab & Azure DevOps CI/CD** with OpenShift via webhooks for auto-builds and rollouts.
  - Implemented **NetworkPolicies, SCCs, and TLS routes** for application security and workload isolation.
  - Built **Prometheus-Grafana-Alertmanager** monitoring stack for cluster and app metrics.
  - Developed Terraform modules for **AKS provisioning** with RBAC, ACR integration, and multi-environment workspaces.
  - Configured **Azure Application Gateway** with TLS termination & path-based routing for AKS workloads.
  - Designed **Blue-Green & Canary deployments** in Azure DevOps with Helm.
  - Integrated **Azure Key Vault** for secure pipeline secrets and **self-hosted build agents** for heavy workloads.
  - Achieved **~20% cost savings** with resource rightsizing & Azure cost optimization strategies.
  - Implemented **DevSecOps** practices with OWASP DC, container scans, and secret scanning.
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## **Project 2: Infrastructure Automation & Compliance Enforcement**

**Client:** Mankind | **Role:** DevOps Engineer | **Apr 2022 – Dec 2022**

**Tech Stack:** Azure, Terraform, Ansible, Azure DevOps, PowerShell, Linux, Azure Policy, Log Analytics, Key Vault, PostgreSQL, Azure Files

### **Key Contributions:**

- Automated provisioning with **Terraform**, reducing manual effort by **70%** using reusable modules.
  - Automated **PostgreSQL DB setup** via Azure CLI & Terraform.
  - Applied **Azure Policies** for encryption, tagging, and region restrictions.
  - Enabled **centralized logging** with Log Analytics and diagnostic settings.
  - Deployed **Azure Recovery Services Vault** for DR and backups.
  - Used **Private Endpoints** to secure storage and Key Vault from public exposure.
  - Built Azure DevOps pipelines to deploy Terraform/ARM/Bicep templates with validation gates.
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## **Project 3: Enterprise DevOps Modernization & Monitoring**

**Client:** Trionfo | **Role:** Azure DevOps Engineer | **Aug 2020 – Mar 2022**

**Tech Stack:** Azure, Azure DevOps, Jenkins, Docker, Kubernetes, Prometheus, Grafana, Azure Blob, ACR, YAML Pipelines, SonarCloud

**Key Contributions:**

- Migrated legacy **Jenkins jobs** to **Azure DevOps YAML** pipelines, standardizing CI/CD processes.
- Containerized **.NET & Node.js apps** and deployed to AKS with Helm.
- Integrated **SonarCloud** quality gates into pipelines.
- Reduced build/deployment times by **30%** via caching and parallel jobs.
- Deployed Prometheus & Grafana dashboards for **real-time application metrics**.
- Hardened container security with image signing & vulnerability scanning in ACR.
- Configured **Fluent Bit** for centralized logging to Azure Log Analytics.