

# Pavan Kalyan Penchikalapati

## Senior DevOps Engineer

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### PROFESSIONAL SUMMARY

Dedicated and results-driven **DevOps Engineer** with over **4 years of experience** in delivering scalable, secure, and automated infrastructure solutions. Proven expertise in **Cloud Computing (Azure & AWS), Containerization (Docker, Kubernetes), CI/CD pipeline automation, Configuration Management, and Linux System Administration**. Adept at using tools like **Git, Jira, and Splunk**, with strong skills in **branching, tagging, and version control** across both **Linux** and **Windows** environments. Seeking a challenging role in a forward-thinking organization to contribute to continuous delivery and operational excellence.

### TECHNICAL SKILLS

Cloud Technologies	Azure, AWS
Build Tools	Maven, NPM, Pip
Container Technologies	Docker, Kubernetes
Scripting	Python
Version Control System	Git, GitHub and Gitlab
Monitoring & Logging Tools	Prometheus, Grafana, Splunk
Infrastructure as Code	Terraform
CI/CD	GitHub Actions, Azure DevOps, Gitlab and Argo CD
Security & Static Code Analysis	SonarQube, Trivy
Database	Oracle SQL, MongoDB

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## WORK EXPERIENCE

### Senior DevOps Engineer

Capgemini (payrolled by Grayradiant Data Services Pvt Ltd) — Bangalore

Jan 2024 – Present

- **Led nightly deployments** to Kubernetes clusters with strict adherence to **CAB approvals** and release windows; ensured compliance with hard freeze and change blackout policies.
- Developed and maintained **automated CI/CD pipelines using GitLab**, improving deployment reliability and reducing manual intervention.
- Introduced **best practices in version control using Git**, including branching strategy and webhook integration, significantly improving collaboration and traceability.
- Played a key role in **containerizing microservices** for 3+ development teams, aligning with enterprise standards and accelerating environment parity.
- Spearheaded the organization's **adoption of Kubernetes**, achieving a **20% cost efficiency** by optimizing resource utilization and autoscaling strategies.
- Integrated **Splunk monitoring with Microsoft Teams** for real-time alerts on API and service failures; quickly performed root cause analysis and raised JIRA incidents.
- Implemented **Infrastructure as Code (IaC)** using **Terraform** for microservices and Kubernetes infrastructure on AWS.
- Set up **Terraform remote backend and state locking** using S3 and DynamoDB; managed **multi-team remote state configurations** to ensure team isolation and consistency.
- Hands-on experience with **AWS VPC, IAM, Route53, Load Balancers**, and **custom domain routing in Kubernetes** through ALB and Ingress integration.
- Recognized for **resolving critical VPC peering issues**, unblocking major development bottlenecks across cross-functional teams.
- Monitored **ODI ETL jobs and EDQ servers**, ensuring successful data pipelines and quick remediation of data quality issues.
- Managed customer notification and identity verification incidents in production by:
  - Using curl and **authentication tokens** to fetch data from APIs.
  - Performing real-time **database updates** and **config validations** based on **BAN** and **MSISDN**.
- Executed **manual user operations** such as resynchronization in **Siebel UI** and account cleanup in databases, maintaining service integrity for CHUB services.

- Conducted **training and knowledge-sharing sessions** on Kubernetes, CI/CD, and automation for junior engineers and cross-functional teams, fostering a culture of DevOps maturity.
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## DevOps Engineer

*Grayradiant Data Services Pvt Ltd — Bangalore*

*Aug 2021 – Jan 2024*

- Delivered DevOps services for **360world** project.
- Managed **Amazon EKS clusters** using **Terraform**, **eksctl**, **kubectrl**, and **AWS CLI**, supporting highly available containerized applications across environments.
- Deployed and monitored services on both **AWS EKS** and **Azure AKS**, ensuring reliability and cost-efficiency across multi-cloud platforms.
- Built custom **Kubernetes operators** for OAuth integration, secret retrieval from **Azure Key Vault**, and legacy system compatibility.
- Designed and implemented **CI/CD workflows** using **Helm**, and **Azure DevOps**, enabling seamless application releases across dev, Qlab, PLab and prod environments.
- Developed **multi-stage Docker files** and deployed containerized applications written in **Go**, **Node.js**, and **Python**.
- Automated infrastructure provisioning with **Terraform** facilitating repeatable and consistent environment setups.
- Migrated legacy workloads to **AWS**, architected **hybrid cloud environments** integrating **Azure** to meet regulatory and performance requirements.
- Developed **AWS Lambda functions** triggered by **S3**, **SNS**, and **API Gateway** to handle serverless tasks like automation, logging, and data processing.
- Implemented **IAM roles and policies** with **least privilege** and **cross-account access**, ensuring secure and compliant identity management.
- **Created and maintained CI/CD pipelines in Azure DevOps** for deploying workloads to **AWS EKS**, **Azure AKS**, and **Azure Virtual Machines**, ensuring automated, consistent, and secure delivery across hybrid environments.
- Authored and maintained **Terraform scripts** for provisioning Azure infrastructure through automated deployment pipelines.
- Configured **Git-based version control workflows**, including feature branching, tagging, merging strategies, and pull request automation.
- Developed **Python automation scripts** for provisioning, monitoring, and routine server maintenance tasks, integrating with **Azure Key Vault** to fetch credentials securely.
- Automated **password expiry notifications** using Outlook email integration and custom scheduling scripts.

- Enabled and verified **Kubernetes cron jobs** for scheduled testing and post-deployment validation activities.
  - Collaborated cross-functionally via **Jira, Confluence**.
  - Leveraged **Splunk** for real-time log analysis and system monitoring, contributing to faster incident resolution and improved service reliability.
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## EDUCATION

### **Bachelor of Commerce (B. Com) in Computer Applications**

Rayalaseema University, Andhra Pradesh — 2021

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## CERTIFICATIONS

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

- **Skilled Cloud DevOps Engineer** with 4+ years of hands-on experience supporting, automating, and optimizing mission-critical deployments across **Azure, AWS, and GCP**, leveraging **Infrastructure as Code (IaC), CI/CD pipelines**, and modern DevOps practices.
- Actively manage and monitor cloud infrastructure on **Azure**, including **Virtual Machines, Blob Storage, SQL Databases, and Azure Functions**, with automated **backup, patching, and autoscaling** solutions to ensure high availability and resilience.
- Hands-on expertise with **Kubernetes platforms** including **Azure AKS, Amazon EKS, Google GKE**, and **on-premises clusters on VMware**, enabling scalable, hybrid container orchestration.
- Designed and deployed **microservices** using **Docker and Kubernetes**, improving scalability, performance, and deployment velocity across multiple environments.
- Automated infrastructure provisioning using **Terraform**, managing complete cloud environments including **VNets, NSGs, Subnets, Load Balancers, and VMs**, ensuring **repeatable, version-controlled, and auditable** infrastructure deployments.
- Led successful **on-prem to Azure cloud migration**, managing hybrid environments across **Azure, AWS, and GCP** to improve performance, availability, and cost-efficiency.
- Configured and managed **Splunk monitoring and alerting**, enabling real-time visibility into **API-level performance, proxy logs**, and proactive **incident resolution**.

- Managed **GitHub repositories** with access control, pull requests, and branching strategies; streamlined collaboration and improved version management across engineering teams.
- Deep experience with core **Azure services** including **Azure AD, ACI, Azure DNS, VMSS, Azure Front Door, VNets, and Load Balancers**, delivering robust cloud-native solutions.
- Received "**Star of the Month**" award for implementing **20% cost reduction** through optimized infrastructure with **Terraform and Kubernetes**.
- Presented at local **DevOps meetups**, sharing practical experience on **Kubernetes, CI/CD automation, and infrastructure security** to foster community growth.
- **Microsoft Certified**: Azure Administrator Associate (**AZ-104**) and Azure DevOps Engineer Expert (**AZ-400**).
- **Certified Kubernetes Administrator (CKA)** – *Pursuing*.