

# GOPI GANESH GULAPALYAMATHAM

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## PROFESSIONAL SUMMARY

- Results-driven DevOps Engineer with 5+ years of experience architecting, deploying, and managing scalable cloud-native infrastructure across AWS, Azure, and GCP.
- Proven expertise in Kubernetes orchestration, CI/CD pipeline automation, infrastructure as code (Terraform, Ansible), and cloud security (DevSecOps).
- Adept at optimizing deployment processes, implementing multi-cloud strategies, and integrating monitoring, logging, and observability tools to enhance system reliability and operational efficiency.
- Skilled in Python, Bash, Docker, Helm, Prometheus, Grafana, Jenkins, and ArgoCD.
- Strong track record of reducing release cycles, automating cloud operations, and improving resource utilization in production-grade environments.

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## TECHNICAL SKILLS

**Cloud Platforms & Services:** AWS (EC2, S3, Lambda, VPC, IAM, CloudWatch, ECS, EKS, RDS, CloudFormation), Azure (AKS, VM, Resource Manager, Log Analytics, Azure DevOps, Key Vault), GCP (Compute Engine, GKE, VPC, IAM, Cloud Monitoring, Cloud Functions)

**Containerization & Orchestration:** Docker, Kubernetes (AKS, EKS, GKE), Helm, Kustomize, vCluster, Kubeflow, KubeRay

**Infrastructure as Code (IaC) & Automation:** Terraform, Ansible, Pulumi, CloudFormation, Packer, AWS CDK

**CI/CD & Release Management:** Jenkins, GitHub Actions, GitLab CI/CD, Azure DevOps Pipelines, ArgoCD, Spinnaker, Tekton

**Monitoring, Logging & Observability:** Prometheus, Grafana, ELK Stack, Datadog, Amazon CloudWatch, New Relic, Loki

**Security & DevSecOps Tools:** Vault, AWS Security Hub, Azure Security Center, Trivy, Snyk, Falco, IAM Policies

**Scripting & Programming:** Python (Automation, API Integrations), Bash/Shell Scripting, Go, JavaScript

**Databases & Data Services:** PostgreSQL, MySQL, MongoDB, DynamoDB, Amazon RDS, Redis

**Collaboration & Ticketing Tools:** Jira, ServiceNow, Confluence, Postman, Swagger

**Other Tools & Platforms:** Helm Charts, Kustomize, vCluster, Kubeflow, KubeRay, Argo Workflows

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## PROFESSIONAL EXPERIENCE

### DevOps Engineer

Aug 2023 - Present

#### Rafay Systems | California, CA, USA

- Deployed containerized applications across AWS, Azure, and OCI Kubernetes clusters using Terraform and Helm, streamlining multi-cloud operations and improving deployment efficiency by 40%.
- Developed automated CI/CD pipelines with GitHub Actions and ArgoCD, accelerating build, test, and deployment processes, which reduced release cycle times by 35% and enhanced release reliability.
- Set up comprehensive monitoring and alerting using Prometheus, Grafana, and CloudWatch, enabling real-time performance insights and reducing system downtime by 30%.
- Automated MLOps template management with Python scripts and APIs, eliminating repetitive manual work, minimizing errors, and boosting operational efficiency across multi-environment deployments by 70%.
- Integrated Jira and ServiceNow workflows into deployment pipelines, improving visibility for approvals, accelerating change management, and strengthening compliance with ITIL standards.
- Designed secure cloud architectures in AWS and GCP, including VPCs, IAM policies, subnets, and firewall rules, improving tenant isolation, compliance, and overall security posture.
- Managed microservices on AKS with RBAC, namespaces, and auto-scaling, optimizing resource usage, ensuring high availability, and reducing cloud infrastructure costs by 20%.
- Enhanced multi-cloud MLOps template validation with automated input checks and deployment verifications, improving deployment success rates for 300+ client environments and reducing failure rates by 45%.

### Cloud Engineer

Jul 2019 - Jul 2022

#### Tata Consultancy Services | Hyderabad, TS, India

- Deployed and orchestrated over 200 Docker containers into Kubernetes clusters across QA, Test, and Production, standardizing multi-environment operations and improving deployment efficiency by 30%.
- Revamped AKS cluster configurations for production workloads, optimizing pod scheduling and resource allocation, which increased system scalability by 25% and reduced infrastructure cost.

- Implemented automated CI/CD pipelines using Azure DevOps and Jenkins, enabling continuous build, test, and deployment, reducing release cycle time by 50% and enhancing deployment reliability.
- Provisioned and maintained cloud infrastructure through Terraform and Ansible, ensuring repeatable Kubernetes cluster deployments and eliminating configuration inconsistencies across environments.
- Established monitoring and alerting frameworks using Prometheus, Grafana, and Azure Monitor, enabling proactive issue detection and improving system uptime by 20%.
- Streamlined server management of IBM WebSphere nodes, optimizing application performance and reducing manual administrative effort by 25% across multiple environments.
- Led defect triage and release coordination with QA and development teams via Jira, ensuring critical production issues were resolved on time and releases executed without delays.
- Secured cloud operations by configuring IAM roles, firewall rules, and logging policies, strengthening compliance, enabling audit readiness, and safeguarding enterprise cloud assets.

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## PROJECTS

### Multi-Cloud Kubernetes Deployment & CI/CD Automation

- Deployed and managed Kubernetes clusters on AWS, Azure, and GCP using Terraform and Helm, standardizing infrastructure across environments and improving deployment efficiency by 40%.
- Built automated CI/CD pipelines with GitHub Actions and ArgoCD, integrating build, test, and deployment processes to reduce release cycle times by 35% and increase reliability.
- Configured multi-cloud networking, namespaces, RBAC, and vCluster integration, ensuring secure, scalable workloads with consistent operational practices across cloud providers.

### Cloud Infrastructure Security & Compliance Automation

- Configured secure AWS and GCP cloud architectures including VPCs, IAM policies, firewall rules, and logging, enhancing compliance and reducing misconfigurations.
- Implemented automated security checks using Vault, Trivy, Snyk, and Falco, continuously validating infrastructure against DevSecOps standards.
- Provisioned and managed resources using Terraform and Ansible, enforcing audit-ready practices and minimizing operational risk across multi-cloud environments.

### Automated Cloud Resource Scaling & Cost Optimization

- Implemented auto-scaling policies for Kubernetes clusters on AWS (EKS), Azure (AKS), and GCP (GKE) to dynamically adjust workloads, reducing cloud costs by 20%.
- Developed Python and Bash automation scripts to monitor resource utilization and trigger scaling events, ensuring high availability and optimal performance.
- Integrated Prometheus, Grafana, and CloudWatch dashboards for real-time resource metrics, enabling proactive adjustments and improved operational efficiency.

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## EDUCATION

**Masters in Information Science**  
University of North Texas | Denton

**Aug 2022 - Jun 2024**

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## CERTIFICATIONS

- AWS Certified Solutions Architect - **LinkedIn Learning**
- Microsoft Certified: Azure Fundamentals - **LinkedIn Learning**
- Google Cloud Professional Cloud Architect - **Coursera**
- Docker and Kubernetes: The Complete Guide - **LinkedIn Learning**
- Terraform Associate Certification - **LinkedIn Learning**
- DevOps Foundations: Lean and Agile - **LinkedIn Learning**