**Prathik Marneni**

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**Professional Summary**

Senior DevOps Engineer with 5+ years of experience architecting scalable cloud infrastructure for high-traffic applications. Expert in Kubernetes orchestration, Infrastructure as Code, and zero-downtime deployment strategies. Delivered measurable business impact through 85% faster deployment cycles, significant annual cost optimization, and 99.9% system reliability. Proven ability to scale distributed systems handling millions of requests while maintaining security and compliance standards.

**Technical Skills**

* Cloud Platforms: AWS (EC2, S3, RDS, Lambda, EKS, ECS), Azure (AKS, App Services, SQL Database), GCP (basic exposure)
* Infrastructure as Code: Terraform, CloudFormation, ARM Templates, Ansible, Pulumi
* Containers & Orchestration: Kubernetes, Docker, Helm, Istio, Container Registries, Auto-scaling
* CI/CD & GitOps: Jenkins, GitHub Actions, Azure DevOps, GitLab CI, ArgoCD, Flux
* Monitoring & Observability: Datadog, Prometheus, Grafana, ELK Stack, Jaeger, New Relic, CloudWatch
* Security & Compliance: AWS Config, Azure Security Center, IAM, HashiCorp Vault, Policy as Code
* Programming & Scripting: Python, Go, PowerShell, Bash, YAML, JSON, SQL
* Databases: MySQL, PostgreSQL, SQL Server, MongoDB, Redis, DynamoDB
* Service Mesh & Networking: Istio, Envoy, AWS VPC, Azure VNET, Load Balancers

**Professional Experience**

**Global Payments**

*Senior DevOps Engineer | Atlanta, GA | Jan 2022 – Present*

* Architected and optimized **CI/CD** pipelines for 15+ microservices processing $2B+ in daily transactions, reducing deployment time from 2 hours to 20 minutes while maintaining zero-downtime deployments
* Designed and managed multi-region **AWS** infrastructure using **Terraform,** supporting 99.9% uptime SLA for mission-critical payment processing systems
* Built and scaled **Kubernetes** clusters on **EKS** with advanced auto-scaling policies, handling 10M+ API requests daily with sub-100ms latency
* Implemented comprehensive security framework using **AWS** Config and custom policies, achieving SOC 2 Type II certification and maintaining PCI DSS compliance
* Engineered centralized secrets management solution using HashiCorp Vault and **AWS** Secrets Manager with automated rotation, eliminating security vulnerabilities across 50+ applications
* Developed advanced monitoring and alerting systems using **Datadog** and **Prometheus,** reducing mean time to resolution by 60% and preventing 12+ production incidents through proactive detection
* Led cloud **cost** optimization initiative through intelligent resource scheduling and rightsizing, achieving significant **cost** reduction while improving performance by 25%
* Designed disaster recovery architecture with automated failover capabilities, ensuring RPO of 15 minutes and RTO of 30 minutes across multiple availability zones
* Containerized microservices using **Docker** and deployed to **EKS** clusters with Helm, improving portability and deployment reliability
* Built **ML** infrastructure on GPU-optimized instances with auto-scaling, supporting real-time fraud detection models processing 100K+ transactions per second
* Integrated **MLOps** pipelines using **MLflow** and **Kubeflow,** enabling automated model deployment and A/B testing for machine learning teams
* Established security-first **CI/CD** practices with automated vulnerability scanning, code quality gates, and compliance checks, reducing security issues by 90%
* Mentored junior engineers and collaborated with cross-functional teams using **Agile** methodologies, driving infrastructure automation initiatives that improved developer productivity by 40%

**TEKWORKS DIGITAL PVT LTD**

*DevOps Engineer | Hyderabad, India | Jul 2019 – Jul 2021*

* Architected and managed **Azure** cloud infrastructure for 20+ enterprise applications serving 100K+ users, utilizing Infrastructure as Code principles with **Terraform** and ARM templates
* Designed robust **Azure** DevOps pipelines for Java and .NET applications with automated testing suites, blue-green deployments, and feature flag management
* Led complex database migration projects from on-premises SQL Server to **Azure** SQL Database, achieving 99.9% data integrity and minimal downtime through careful planning and execution
* Implemented and optimized **AKS** clusters with advanced networking using **Istio** service mesh, supporting microservices architecture with enhanced security and observability
* Developed enterprise identity management solutions integrating Active Directory and Office 365, serving 5000+ users across multiple tenants
* Implemented security hardening using CIS benchmarks and automated compliance monitoring, achieving 95% security score improvement across all environments
* Created comprehensive automation framework using **PowerShell** and **Python,** reducing manual infrastructure tasks by 80% and improving deployment consistency
* Built reusable **Terraform** modules and implemented VM Scale Sets with predictive auto-scaling, ensuring high availability and optimal resource utilization
* Established comprehensive monitoring stack using **Azure** Monitor and Application Insights, providing real-time visibility into application performance and user experience
* Developed technical documentation and architectural decision records, facilitating knowledge transfer and ensuring compliance with enterprise standards

**Education**

**Auburn University**

*Master’s degree in computer science | Montgomery, AL | 2022*

**GITAM University**

*Bachelor's Degree in Electronics & Communication Engineering | Visakhapatnam, India | 2020*

**Certifications**

* Microsoft Certified: Azure DevOps Engineer Expert
* Microsoft Certified: Azure Administrator Associate
* AWS Certified Solutions Architect – Associate