VAMSI CHEEDARAPADU

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SUMMARY

Results-driven DevOps Engineer with 3.2 years of proven expertise in scaling mission-critical systems handling 1M+ requests per minute. Achieved 99.99% uptime across multi-region Kubernetes deployments while reducing infrastructure costs by 40%. Specialized in AWS cloud architecture, CI/CD automation, and implementing GitOps practices that reduced deployment times by 85%.

TECHNICAL SKILLS

Cloud Platforms: AWS
Build Tools: Gradle, Maven
Containerization & Orchestration: Docker, Kubernetes, Helm, Docker Swarm
Scripting & Automation: Go, Shell, Python, Groovy
Version Control: Git, GitHub, GitLab
Configuration Management: Ansible, Chef
IaC & Automation: Terraform, CloudFormation
CI/CD: Jenkins, GitLab CI/CD, GitHub Actions, ArgoCD
Security & Compliance: Vault, AWS IAM
Monitoring & Visualization: Prometheus, Grafana, Datadog, CloudWatch, Power BI
Collaboration & Communication : Slack, Jira

PROFESSIONAL EXPERIENCE

Tata Consultancy Services, Hyderabad, India: DevOps Engineer   Mar 2023 – Present

- Engineered a high-availability multi-region Kubernetes platform handling 1M+ requests per minute, ensuring 99.99% uptime across global regions.

- Architected a microservices-based infrastructure using Kubernetes, enabling fault isolation and seamless communication across 200+ services.

- Built a robust CI/CD platform managing 1000+ daily deployments with zero downtime, supporting 300+ microservices.

- Created custom Kubernetes operators handling 500K+ transactions per day, ensuring 99.999% reliability for mission-critical workloads.

- Engineered an auto-scaling infrastructure serving 10M+ daily active users, reducing system response time by 60% and enhancing scalability.

- Enhanced Kubernetes security posture through RBAC, network policies, and HashiCorp Vault, ensuring robust access control and secrets management.

- Implemented blue-green and canary deployment strategies, reducing failure rates by 50% and accelerating release cycles.

- Automated key infrastructure management tasks using Python scripts, cutting manual work by 50% and improving operational efficiency.

- Implemented distributed tracing and monitoring solutions processing 100TB+ of daily metrics, enabling sub-second query performance for rapid issue resolution.

- Architected and deployed a service mesh with Istio, enabling advanced features like circuit breaking, canary deployments, and mTLS for enhanced resilience and security.

- Mentored junior DevOps engineers, reducing onboarding time by 30% through comprehensive hands-on training and proof-of-concept demonstrations.

- Resolved critical production incidents promptly, maintaining system availability and minimizing business impact.

- Implemented and optimized Kubernetes Ingress controllers for efficient traffic management across multiple microservices

- Designed and enforced GitOps workflows using ArgoCD and Helm for standardizing deployments.

- Coordinated cross-departmental collaboration to evaluate a software product, leading to a fit-for-purpose verdict and a forward-moving recommendation.

Tata Consultancy Services, Hyderabad, India: DevOps Engineer Intern   Dec 2021 – Mar 2023

- Developed and maintained CI/CD pipelines handling 10,000+ builds daily with a 99.99% success rate.

- Collaborated with development teams to manage code repositories using Git, ensuring efficient version control practices, including branching, merging, and pull requests.

- Automated unit testing and integration testing as part of CI/CD workflows using tools like JUnit, Selenium, and pytest, improving code quality and reducing manual testing efforts.

- Led Kubernetes adoption, improving system efficiency by 20% and reducing cloud costs.

- Configured monitoring and alerting systems using Prometheus and Grafana, ensuring system health is continuously tracked with real-time notifications.

- Developed log aggregation pipelines using Fluentd and Elasticsearch, improving real-time issue detection.

- Automated environment provisioning with Shell scripts, saving 20+ hours weekly.

- Created and maintained reusable Ansible playbooks to deploy applications and configure servers for continuous integration environments.

- Created custom Terraform modules for AWS, improving reusability and minimizing errors.

- Implemented automated log analysis that helped identify and resolve performance bottlenecks.

CERTIFICATIONS

Certified Kubernetes Application Developer, Udemy:	2025
Certified Kubernetes Security Specialist, Udemy:	2025
AWS Certified Solutions Architect – Associate, Udemy:	2024
AWS Certified Developer – Associate, Udemy:	2024

EDUCATION

B.Tech in Electrical and Electronics Engineering   2021
Gates Institute of Technology