NIKHIL RAGHUPATHY

DevOps Engineer | Azure & AWS Cloud | Platform Engineering

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PROFESSIONAL SUMMARY

DevOps Engineer with 3 years of experience managing enterprise-scale Azure and AWS cloud infrastructure. Experienced in CI/CD automation, infrastructure provisioning, platform engineering, cost optimization, and multi-region production operations. Successfully reduced deployment time by 40% and built internal DevOps automation platforms to streamline provisioning and operational workflows.

TECHNICAL SKILLS

- **Cloud Platforms:** Microsoft Azure (Virtual Machines, Networking, Entra ID, Key Vault, Storage Accounts, Cost Management), AWS (EC2, S3, Route 53, CloudFront, IAM, ELB, Auto Scaling), Linode (VM provisioning, volume attachment)
- **CI/CD & DevOps Tools:** GitHub Actions (Self-hosted runners)
- **Containerization:** Docker (multi-stage builds, networking, volumes, Docker Compose)
- **Monitoring & Logging:** Prometheus (metrics collection, alerting), Grafana (dashboard visualization), cAdvisor (container monitoring)
- **Web Server & Security:** Nginx (reverse proxy, load balancing, SSL setup), SSH, IAM, Firewalls
- **Infrastructure & Automation:** Terraform (AWS), Shell Scripting, Python
- **Networking:** IP configuration, subnetting, firewalls

PROFESSIONAL EXPERIENCE

CrashPlan   **July 2025 – Present**
DevOps Engineer   *Bengaluru, India*

- Reduced deployment time by 40% by redesigning CI/CD pipelines using GitHub Actions and automating Dev & QA environments.
- Managing production deployments across 4 regions, ensuring stable and reliable monthly releases.
- Operating and maintaining enterprise-scale Azure virtual machine infrastructure across production and non-production environments.
- Contributing to cloud cost visibility and optimization initiatives for high-usage enterprise environments.
- Designed and developed Cloud Infrastructure Management System (CIMS) to provide VM-level cost visibility and billing scope insights.
- Architected and built OpsOne, an internal DevOps automation platform for pod provisioning, backup validation, and secure terminal access.
- Automated VM provisioning and infrastructure validation using Shell and Python scripts, reducing manual errors.
- Provisioned infrastructure for Redis high-availability (3-node Sentinel) clusters and MongoDB production environments in coordination with DB teams.
- Managed SSL certificate lifecycle across multiple production environments.

- Built and maintained TenantBridge onboarding platform enabling single-tenant and multi-tenant provisioning for business teams.
- Part of a 3-member DevOps team supporting multi-region Azure infrastructure.

e-Cosmos India Private Limited   **September 2023 – July 2025**
DevOps Engineer   *Bengaluru, India*

- Optimized CI/CD pipelines, reducing deployment time and improving reliability.
- Implemented cost-saving strategies, reducing AWS infrastructure expenses.
- Enhanced monitoring and alerting using Prometheus and Grafana, decreasing system downtime.

Magic Bus India Foundation   **January 2023 – May 2023**
AWS Re/Start Program Intern   *Chennai, India*

- Completed AWS Re/Start program with hands-on experience in AWS cloud fundamentals.
- Developed foundational knowledge in AWS services and best practices for cloud security and scalability.

KEY PROJECTS & CONTRIBUTIONS

PROFESSIONAL PROJECTS (e-Cosmos)

- Kliqmee Web Application: Deployed on AWS EC2 using GitHub Actions CI/CD, Nginx reverse proxy, and SSL configuration.
- Verificarepro: Developed Python + Selenium scraper, automated database backups, and optimized cloud usage.

PERSONAL PROJECTS

- Private Cloud using OpenStack: Built and configured private cloud infrastructure with automated VM provisioning.
- Docker CLI Management Tool: Developed custom shell-based CLI for container lifecycle management and monitoring.

CERTIFICATIONS

AWS Certified Cloud Practitioner – Issued May 2023

View Certification

EDUCATION

Master of Computer Applications (MCA)
S. A. Engineering College, Chennai | June 2021 – April 2023 | CGPA: 8.33

Bachelor of Computer Applications (BCA)
Apollo Arts & Science College, Chennai | June 2018 – April 2021 | CGPA: 7.81