

# NIKHIL RAGHUPATHY

Jr. Cloud & DevOps Engineer

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## PROFESSIONAL SUMMARY

Jr. Cloud & DevOps Engineer with 2 years of experience in designing, automating, and optimizing cloud infrastructure. Hands on experience in AWS, CI/CD pipelines, Docker, and Infrastructure as Code (IaC). Successfully reduced cloud costs and improved deployment efficiency through DevOps best practices. Adept at troubleshooting, security enhancement, and performance tuning in cloud environments. Passionate about scalability, automation, and continuous learning to drive innovation.

## TECHNICAL SKILLS

- Cloud Technologies:** AWS (EC2, S3, CloudFront, Route 53, VPC, ELB, Auto Scaling, IAM, Elastic Beanstalk), OpenStack
- Version Control:** Git, GitHub
- CI/CD Tools:** GitHub Actions (self-hosted runners, workflow automation), Jenkins (pipeline setup, SonarQube integration)
- 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
- Scripting & Automation:** Python (web scraping, automation), Shell Scripting (system administration, infrastructure automation), Terraform (IaC for AWS provisioning)
- Networking:** IP configuration, subnetting, firewalls

## EXPERIENCE/PROJECTS

### e-Cosmos India Private Limited

Jr. Cloud & DevOps Engineer

September 2023 - Present

Bengaluru, India

- Optimized CI/CD pipeline 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

AWS Re/Start Program Intern

January 2023 – May 2023

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

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- **Kliqmee Web Application:** Deployed on AWS EC2 with CI/CD using GitHub Actions, Nginx reverse proxy, SSL security, and monitoring solutions.
- **Verificarepro:** Developed a data scraper using Python & Selenium, optimized cloud costs, and implemented automated database backups.
- **Server Build (Internal Compute Requirements):** Set up a physical server with network topology, security protocols, and automated maintenance.
- **Private Cloud using OpenStack:** Built a scalable private cloud, configured VMs, automated provisioning with IaC, and optimized performance.
- **Docker Management Tool:** Created a command-line tool for managing Docker containers, images, and networks with logging & resource monitoring.
- **Web Scraper (Python & Selenium):** Developed a multi-threaded scraper with database integration, custom parsers, and scheduling.

## CERTIFICATIONS

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### AWS Certified Cloud Practitioner

*Issued on: May 2023*

[View Certification](#)

## EDUCATION

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### Master of Computer Applications

*S. A. Engineering College*

**CGPA: 8.33**

**June 2021 – April 2023**

*Chennai, Tamil Nadu*

### Bachelor of Computer Applications

*Apollo Arts & Science College*

**CGPA: 7.81**

**June 2018 – April 2021**

*Chennai, Tamil Nadu*

## STRENGTHS & AREAS FOR GROWTH

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- **Strengths:** Problem-solving, DevOps & Cloud expertise, Automation, Security & Cost Optimization, Continuous Learning.
- **Areas for Growth:** Kubernetes, Advanced Security Practices, Full-Stack Development, Advanced Networking.