NIKHIL R

Jr. Cloud & DevOps Engineer

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PROFESSIONAL SUMMARY

Dedicated and results-driven Cloud & DevOps Engineer with one year of experience in optimizing and streamlining cloud infrastructure and IT operations. Proven ability to implement automation, CI/CD pipelines, and cloud solutions on AWS. Seeking a challenging role to leverage my expertise in Cloud and DevOps technologies to contribute to a dynamic and growth-focused team.

TECHNICAL SKILLS

- **Cloud Technologies:** AWS, OpenStack
- **Version Control:** Git, GitHub
- **CI/CD Tools:** GitHub Actions, Jenkins
- **Containerization Tools:** Docker
- **Monitoring & Visualization:** Prometheus, Grafana
- **Web Server:** Nginx
- **Languages:** Python, Shell Scripting
- **Other Tools:** SSH
- **Networking:** Networking Fundamentals

EXPERIENCE/PROJECTS

eCosmos India Private Limited   **September 2023 - Present**
Jr Cloud & DevOps Engineer   *Bengaluru, India*

- **Kliqmee Web Application**
  - Deployed the Kliqmee web application on AWS EC2, ensuring high availability and scalability.
  - Developed a CI/CD pipeline using GitHub Actions, automating build, test, and deployment processes for seamless updates.
  - Configured Nginx as a reverse proxy, optimizing performance for faster response times.
  - Managed SSL certificates to secure data transmission, enhancing application security.
  - Set up monitoring and logging solutions to track application performance and quickly identify production issues.

- **Verificarepro**
  - Monitored AWS deployment to ensure scalable application performance.
  - Created a data scraping tool using Python and Selenium for automated data extraction, implementing efficient error handling to ensure robust data collection.
  - Optimized cloud resource usage, reducing deployment costs.

- **Server Build for Internal Compute Requirements**
  - Deployed a physical server running Ubuntu to meet internal computational needs, ensuring a robust environment for team collaboration and development tasks.
  - Configured network topology, including VLANs, IP addressing, and subnet management for optimal data flow and secure access.
  - Implemented security protocols such as firewalls and SSH access for secure remote server management.

- Managed server operations with regular maintenance like system updates, performance tuning, and log monitoring for issue resolution.

- **Private Cloud Creation using OpenStack**
    - Designed and implemented a private cloud infrastructure using OpenStack, enabling a scalable and isolated test environment for internal projects.
    - Set up virtual machines (VMs), storage volumes, and network components for a complete testing ecosystem.
    - Automated provisioning and management of cloud resources through Infrastructure as Code (IaC) principles.
    - Monitored resource utilization and optimized cloud performance to support high availability in testing environments.

- **Web Scraper Development (Python and Selenium)**
    - Developed an automated web scraper using Python and Selenium to collect data from multiple websites, ensuring efficient data extraction for analysis.
    - Integrated the scraper with a database for organized storage of extracted data.
    - Implemented multi-threading and scheduling to enhance the scraper's performance and ensure timely updates.
    - Built custom parsers to handle various webpage structures, improving scraping accuracy.

- **Docker Management Tool**
    - Developed a command-line tool for Docker container, image, network, and volume management using Shell Scripting.
    - Implemented container lifecycle management and debugging features, including log filtering and resource monitoring.
    - Streamlined image, network, and volume management for efficient resource handling.
    - Provided interactive menus and comprehensive documentation for ease of use and collaboration.

CERTIFICATIONS

AWS Certificated Cloud Practitioner
Issued on: May 2023
[View Certification](#)

EDUCATION

Master of Computer Applications   **June 2021 – April 2023**
S. A. Engineering College   *Chennai, Tamil Nadu*
CGPA: 8.33

Bachelor of Computer Applications   **June 2018 – April 2021**
Apollo Arts & Science College   *Chennai, Tamil Nadu*
CGPA: 7.81