NIKHIL ROMPALLI

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Senior DevOps Engineer

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PROFESSIONAL SUMMARY

- Experienced **DevOps Engineer** with more than **6 years** of expertise in crafting and deploying **Cloud Infrastructure**, **CI/CD Pipelines**, and **Container Orchestration**.
- Possesses a background in both **Cryptocurrency Exchanges** and AIOps-driven IT operations management (**ITOM**) solutions within corporate environments.
- Adept at **Automating Infrastructure** and application deployment processes, ensuring high availability, security and performance.
- Proficient in working with **GitLab**, **GitHub Actions** and **BitBucket** Pipelines.
- Proficient in Managing and optimizing various **AWS** components.
- Proficient in **Terraform** for provisioning resources in **AWS** and **Azure Cloud**, including **EKS** clusters, **RDS** instances and networking modules.
- Experienced in maintaining **High Availability** and **Reliability** of both application and infrastructure. Skilled in effectively **Troubleshooting** issues and implementing preventive measures.
- Adept in **GitOps** practices with **ArgoCD**, **Helm**, and **Terraform** for seamless application deployment and updates.
- Skilled in developing and managing automation scripts and tools to optimize deployment workflows, guaranteeing no downtime, and adhering to **SRE Principles**.
- Proficient in **Linux**, **AWS**, **Terraform**, **Ansible**, **Kubernetes**, **Docker**, **Jenkins**, **Git, ArgoCD, Istio, Cloudflare** and **ELK** Stack.
- Skilled in optimizing **Ubuntu ISO** images, streamlining deployment processes and enhancing system performance, showcasing expertise in system configuration and resource efficiency within a **Linux** environment.
- Experienced in maintaining the **Reliability** of production infrastructure and actively engaging in **on-call** rotations to provide continuous support, ensuring prompt resolution of operational incidents.
- Utilized **JIRA** and **Confluence** for bug tracking and creating dashboards for issue tracking.

CERTIFICATION

Certified Kubernetes Administrator (CKA)
AWS Certified Solutions Architect - Associate

SKILLS

Cloud Platforms	AWS
Containerization and Orchestration	Docker, Kubernetes
Operating Systems	Linux
Scripting & Programming Language	Shell, Python, Golang
Infrastructure as Code & Deployment Tools	Terraform, Ansible, Saltstack, Helm, ArgoCD, Istio, Cloudflare
Version Control	Git, GitHub, GitLab, BitBucket
CI/CD	Jenkins, GitLab Pipeline, GitHub Actions, Spinnaker
Monitoring and Observability	ELK Stack, Prometheus, Grafana, Datadog
Database	MySQL, NoSQL, Casssandra
Web Servers	Nginx, HAProxy
Artifact Management	Jfrog, Nexus
Code Quality	SonarQube
Methodologies	Agile
Game Development	Unity Game Engine

EXPERIENCE

Senior DevOps Engineer · Aug 2022 - Present
Freelancer · *Toronto, Canada*

- Built, maintained, improved, scaled, and secured cloud infrastructure and resources using **Infrastructure as Code (IaC)** tools such as **Terraform**, **CloudFormation**, and **Ansible**.
- Automated operational tasks using **Python** and **serverless** solutions like **Lambda** and **Kubernetes Jobs**.
- Designed, managed, and monitored **Kubernetes** clusters for multiple production workloads, ensuring **optimal performance** and **reliability**.
- Created and maintained **Helm charts** for deploying applications into **Kubernetes**, ensuring consistent and efficient deployments.
- Installed and managed **Argo CD** to establish **GitOps** for application deployment in Kubernetes clusters.
- Architected **AWS** infrastructure to support cloud-based applications, including networking setup, ensuring **high availability** and **reliability** of both applications and infrastructure.
- Troubleshot and implemented preventive measures for issues in **AWS** and **Kubernetes** environments to ensure seamless application hosting.
- Developed and implemented **CI/CD pipelines** to automate application deployment from code repositories to Kubernetes clusters, using **GitHub actions**, **ArgoCD** eliminating manual intervention.
- Prepared **Kubernetes** manifest files, **Argo CD** manifest files, and customized binaries to streamline application deployment in **Kubernetes**.
- Set up monitoring solutions for Kubernetes applications using **Grafana** and **Prometheus**, ensuring comprehensive observability and alerting.
- Built **Docker images** and deployed containers in **Kubernetes** clusters, optimizing **application performance** and resource utilization.

Senior DevOps Engineer · Aug 2021 - Aug 2022
CoinDCX - India's Most Valued Crypto Exchange Company · *Bangalore, India*

- Converted the company's legacy infrastructure and application deployments to **DevOps** methodologies, resulting in a 99.999% uptime, an average of 100% increase in deployment speed, and a 30% reduction in infrastructure cost.
- Designed Web3 **AWS** architectures to meet high availability application architecture and security, by using AWS services such as **Route53**, **Elastic Load Balancer**, **Auto Scaling Groups**, and **CloudWatch**, which reduced the response time of an application by 20%.
- Configured and Managed **Elastic Beanstalk** and **ebextension** to track the metrics, and create alarms for instance health, **ELB** backend connection, ELB HTTP 5XX, and **EC2** status check failed.
- Migrated a monolithic application into microservices with **Docker** and **Kubernetes**, resulting in a 50% reduction in time to roll out to production.
- Configured the **Elastic Cloud Service** to monitor system logs and real-time metrics, increasing team visibility into the performance and uptime of the system.
- Proficient in **Golang**, utilizing it to engineer networking solutions that establish robust communication layers within distributed systems, and leveraged **Golang** skills to seamlessly integrate with third-party tools, enabling efficient retrieval and analysis of metrics for system monitoring and optimization.
- Automated CoinDCX **K8S** cluster setup along required tools and applications using **Terraform**, **Ansible** (configuration management) and **AWS** reducing manual setup time from 8 hours to 20 minutes.
- Created **Terraform** modules to replace manual task and reduced maintenance by 75%, resulting in a 5% improvement in productivity and a 30% reduction in errors and cost.
- Developed **Terraform** modules for creating secured and optimized **VPC**, **ALB**, **EC2** instance, **Security Groups**, **Route Table**, **S3** for storage for smooth deployment of services to production, resulting in a 75% decrease in deployment time and a 50% decrease in deployment cost.

DevOps Engineer   Jan 2021 - Aug 2021
Acquia - Drupal Based Digital Experience Platform(DXP)   *Pune, India*

- Implemented a **Multi Branch Pipeline** using cloudbees catalogs to improve the development cycle by 30% and reduce the time to market by 40%.
- Devised and implemented a generic **CI/CD pipeline** to onboard customers to bring Acquia's service line features to market faster, resulting in a 3x improvement in time to market and a 40% increase in customer satisfaction.
- Improved the speed and efficiency of Jenkins CI/CD pipeline by implementing a **DIND** (Docker-inside-Docker) container on Kubernetes, which allowed the pipeline to be run directly within the Kubernetes cluster.
- Implemented **Argo CD** as **GitOps** continuous delivery tool for Kubernetes by building base images and then deployed **Argo CD** services and applications using **Helm Charts**.
- Created an automated deployment pipeline using **ArgoCD** to deploy & manage **Kubernetes** applications.
- Employed **Golang** expertise in Kubernetes addon and plugin development, facilitating the creation of scalable and resilient distributed architectures within Kubernetes environments.

Software Product Developer - DevOps/SRE   May 2018 - Jan 2021
OpsRamp(HPE) - AIOps-powered IT operations management (ITOM) solution.   *Hyderabad, India*

- Designed and built automation practices deploying OpsRamp's platforms, which reduced deployment time by a factor of ten, and increased the reliability of platform deployments.
- Configured and Managed Jenkins instances, pipelines and Jenkins plugins and APIs to a web application, resulting in a 50% decrease in time spent on DevOps tasks.
- Configured and managed **Docker** and **Kubernetes** cluster deployments, with the use of automation and infrastructure-as-code scripts.
- Prepared various Kubernetes manifest files to manage **microservice** architecture using **YAML** templating, resulting in a 50% reduction in the amount of time required to manage **Microservices**.
- Migrated **Standalone** applications to **Containerized** platforms such as **Kubernetes**, executing tasks using scripts and tools such as **Terraform** and **Ansible**.
- Improved software quality by reducing the number of reported defects by 30% and increased the number of deployments per week by 50%, by using **Jenkins**, **GitLab**, **SonarQube**, and **Nexus** to implement a **CI/CD** process.
- Created a real-time user analytics dashboard using **ELK** Stack that monitored user metrics and log events to increase user engagement.
- Designed, implemented and maintained **HA Proxy**, **Tomcat**, **MySQL**, **Kafka**, **Elasticsearch**, and **Linux** applications using **Ansible**, **Docker**, **Jenkins**, resulting in a 98% uptime of our core infrastructure services.

DevOps Intern   Aug 2017 - May 2018
OpsRamp(HPE)   *Hyderabad, India*

- Went through the process of setting up and establishing GitLab from scratch in standalone mode at OpsRamp.
- Introduced and set up SonarQube at OpsRamp through detailed research and development.
- Developed Python automation to report SonarQube vulnerabilities, enhancing security monitoring.

EDUCATION

Master of Science (M.SC.) in Computer Science, Bishop's University   2022 - 2024

Bachelor of Technology in Computer Science & Engineering, Raghu Engineering College   2014 - 2018

INTERNSHIP/MENTORSHIP

- Completed intensive training after being selected among the top 85 students for the MissionR&D course from over 2000 students from province. Build various real-time applications using data structures.