Srinath Karkampally

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# Objective

# To work as a DevOps Engineer in an environment that fosters career growth, professional skill enhancement, and personal satisfaction by utilizing my skills and abilities for the growth of an organization

# Skills

* SCM Tools: Git, GitHub
* Build Tool: Maven
* CI/CD: Jenkins
* Containerization: Docker, Kubernetes
* Infra As Code: Terraform
* Configuration Management: Ansible
* Monitoring: Prometheus & Grafana
* OS: Windows & Linux
* Cloud: AWS
* Programming Language: Python

# Summary

* DevOps & AWS Expertise: Around 3 years of professional experience in Build and Release and DevOps Engineering, with a strong focus on DevOps tools and AWS Cloud Architecture.
* CI/CD Implementation: Extensive experience with CI/CD pipelines using Jenkins, automating the entire application deployment lifecycle, and managing Jenkins jobs for end-to-end application deployment.
* Infrastructure as Code (IaC): Hands-on experience with Terraform for consistent, scalable, and reliable infrastructure deployments, including designing and implementing Terraform modules and templates.
* Containerization: Proficient in Docker, including managing containers, images, and communication between containers; knowledge of Docker Swarm and Stack.
* Kubernetes Orchestration: Deployed and managed Kubernetes clusters configured resources like Pods, Deployments, Services, and Ingress, and implemented best practices for high availability, scalability, and efficient resource utilization.
* Monitoring & Automation: Implemented monitoring solutions with Prometheus and Grafana; automated repetitive tasks using scripting languages and configuration management tools like Ansible.
* AWS Cloud Services: Hands-on experience with AWS services like IAM, VPC, EC2, S3, Elastic Block Storage, Elastic Load Balancer, Autoscaling Groups, proficient in storing artifacts in S3 buckets with versioning and cross-region replication.
* Linux & Web Servers: Experience with Linux (Ubuntu and RedHat) operating systems and web servers like Apache2 and Nginx; worked with databases like RDS.
* Collaboration & Efficiency: Collaborated with development and operations teams to streamline release cycles, improve deployment processes, and ensure smooth operation of the software development lifecycle.
* Security & Best Practices: Implemented Kubernetes’ best practices for container orchestration, including rolling updates, auto-scaling, and load balancing, resulting in improved application reliability and performance.

# Work experience (2022-tilldate)

Role : DevOps Engineer

Environment : AWS Cloud, Git, Maven, Jenkins, Docker, Kubernetes, Apache Tomcat & Terraform

**ROLES & RESPONSIBILITIES:**

* Designed and maintained CI/CD pipelines using Jenkins, achieving 95% automation in code compilation, testing, and deployment processes.
* Created and optimized Docker files, built custom images, and pushed them to Docker Hub; used Trivy for image scanning.
* Orchestrated Kubernetes clusters with high availability and scalability, reducing downtime by 40% and improving resource utilization.
* Configured Kubernetes resources like Pods, Deployments, Services, Ingress, PV & PVC, and created Namespaces for service isolation.
* Troubleshot and resolved Kubernetes-related issues, maintaining application reliability and minimizing downtime.
* Implemented system monitoring with Prometheus and Grafana, enabling real-time metrics collection and visualization, improving incident response time by 25%.
* Collaborated cross-functionally with development and operations teams to streamline release cycles, reducing deployment time by 50%.
* Collaborated with development and operations teams to streamline release cycles, improve deployment processes, and ensure smooth operation of the software development lifecycle.
* Deployed and managed AWS infrastructure using services like EC2, S3, VPC and Autoscaling groups with Terraform.
* Automated infrastructure provisioning and configuration using Terraform and Ansible, reducing manual intervention by 70% and improving deployment consistency.

# Certifications

* Aws cloud practitioner

# Education

**CMR COLLEGE OF ENGINEERING AND TECHNOLOGY**

Bachelor of Technology (Electronics and Communication Engineering)