**GUDIYATHAM NAGACHARAN**

DEVOPS ENGINEER

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**CAREER OBJECTIVE:**

Seeking a challenging role where I can leverage my expertise in cloud technologies, automation, and continuous integration/continuous deployment (CI/CD) pipelines to architect scalable and reliable infrastructure, streamline development workflows, and enhance overall operational efficiency

**PROFESSIONAL SUMMARY:**

* Designed, Implemented, and maintained infrastructure as code (IaC) solutions using tools like Terraform, Ansible to automate the provisioning and configuration of infrastructure components such as servers, networks, and storage resources to enable infrastructure configurations to be defined, version-controlled, and deployed programmatically.
* Built, maintained, and optimized CI/CD pipelines to automate the build, test, and deployment of software applications.
* Orchestrated the setup of Git for version control, Jenkins for automation, and Nexus for artifact management, optimizing CI/CD pipelines; reduced manual errors by 60% and accelerated deployment speed by 50%.
* Worked with containerization technologies such as Docker and container orchestration platforms such as Kubernetes to package, deploy and manage containerized applications at scale.
* This includes creating Docker images, defining Kubernetes manifests, and managing containerized workloads across clusters.
* Involved in setting up monitoring and logging solutions to track the performance, availability and health of infrastructure and applications. This involves using tools like Prometheus, Grafana, ELK stack (Elasticsearch, Logstash, Kibana) to collect, analyze, and visualize metrics and logs from various sources.
* Implemented security best practices and compliance standards within infrastructure and applications to protect against security threats and ensure regulatory compliance like access controls, encryption, audit logging, vulnerability management and security scanning tools to mitigate security risks.
* Managed configurations and drift across environments using configuration management tool Ansible.
* Fostered a culture of collaboration and communication among development, operations, and other cross-functional teams involved in the DevOps process. This includes transparency, sharing knowledge, and facilitating feedback loops to continuously improve processes and workflows.
* Worked with Jira for Issue Tracking and Participated in incident response activities to troubleshoot and resolve production incidents in a timely manner.
* Skilled in Software Development Life Cycle and involved in agile methodology throughout the project.
* Monitored resources utilization and performance metrics to identify capacity requirements and optimize infrastructure resources. This involves forecasting capacity needs, identifying performance bottlenecks and implementing optimizations to improve efficiency and reduce costs.

**TECHNICAL SKILLS:**

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| **Operating System** | **Linux, Windows** |
| **Version Control System** | **Git, GitHub** |
| **Scripting** | **Shell Scripting, Python** |
| **Build Tools** | **Maven, NPM** |
| **Artifactory Management Tool** | **Nexus** |
| **CI/CD** | **Jenkins, GitHub Actions** |
| **Containers** | **Docker** |
| **Container Orchestration** | **Kubernetes** |
| **IAC** | **Terraform** |
| **Configuration Management** | **Ansible** |
| **Monitoring** | **Prometheus, Grafana, ELK** |
| **Cloud** | **AWS [Ec2, VPC, S3, Route53, IAM, RDS, CloudWatch, EKS, ECR, CloudFormation, Autoscaling etc]**  **Azure** |

**WORK EXPERIENCE:**

**Role:** Senior System Associate **Company:** Infosys **Time Period:** Feb 23, 2022, to Present

**PROJECTS:**

**Client: Intel**

**Project Description:**

* Intel Corporation is an American multinational corporation and technology company headquartered in Santa Clara, California, and incorporated in Delaware. Intel is one of the world's largest semiconductor chip manufacturers by revenue.
* Intel is a company specialized in semiconductor design and manufacturing, artificial intelligence (AI), autonomous driving, non-volatile memory solutions.

**Roles & Responsibilities:**

* Implemented version control system using Git for managing scripts written in Shell, Terraform, and Ansible, ensuring centralized and organized code repositories.
* Designed and implemented Ansible playbooks and roles to automate the deployment and configuration of complex multi-tier applications, resulting in reduced deployment time and improved consistency across environments.
* Configured Jenkins jobs to trigger on code commits, pull requests, or schedule-based triggers, ensuring continuous integration and delivery of software changes.
* Designed and implemented vpc creation, subnet CIDR calculation, creation of subnets, Internet Gateway, Route table and Routes, NAT Gateway etc.
* Collaborated with cross-functional teams to define network access policies, allowing only necessary traffic and preventing unauthorized access to critical resources, resulting in enhanced security posture and reduced exposure to potential threats.
* Configured DNS hosted zones, records, including A, CNAME records, to efficiently route traffic and support various application needs, resulting in improved availability and reduced latency
* Designed and implemented scalable and highly available Amazon EC2 architectures, leveraging auto scaling groups and load balancers to ensure optimal performance and fault tolerance for cloud-based applications.
* Implemented caching solutions using Amazon ElastiCache to enhance application performance and reduce database load
* Orchestrated complex multi-tier infrastructure deployments using Terraform, including virtual networks, compute instances, storage and security groups
* Implemented Terraform concepts like Locals, Data Sources, Outputs, Functions, Counts and Count index, etc to effective development of modules to reduce manual efforts
* Designed and implemented Docker containers, including creating Docker images, writing Docker files and configuring container orchestration for seamless deployment and scaling
* Designed and implemented EKS clusters, including node groups, auto-scaling and security configurations to deploy containerized workloads on AWS infrastructure, ensuring scalability, resilience, and seamless integration with other AWS services
* Configured Elasticsearch to store and index log data, Logstash for data ingestion and transformation, and kibana for log visualization and monitoring, providing real-time insights into system performance.
* Configured Prometheus to collect and share time-series metrics, designed and customized Grafana dashboards to visualize and analyze the collected metrics, and established alerting rules and notifications for proactive monitoring and incident response.

**EDUCATIONAL QUALIFICATION:** Completed Post Graduation (P.G.) in Master of Computer Applications (M.C.A.) from Sri Venkateswara University [SVU], Tirupati, Andhra Pradesh

Sincerely,

Nagacharan Gudiyatham