**GUDIYATHAM NAGACHARAN**

DEVOPS ENGINEER

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**CAREER OBJECT:**

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
* Worked with containerization technologies such as **Docker** and container orchestration platforms such as **Kubernetes, EKS** to package, deploy and manage containerized microservices 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
* Defined **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
* **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 |
| Security / Code Scanning Tool | SonarQube |
| 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 supplies microprocessors for most manufacturers of computer systems, and is one of the developers of the x86 series of instruction sets found in most personal computers (PCs)

**Roles & Responsibilities:**

* Designed Git version control system for Shell, Terraform, and Ansible scripts**,** centralizing code repositories, and boosting collaboration efficiency by 40% while reducing errors by 25%
* Developed innovative Ansible playbooks and roles automating complex multi-tier application deployment, reduced deployment time by 60% and ensured uniformity across all environments
* Engineered **Jenkins pipelines** to automate code testing, deployment, and monitoring, resulting in a 40% decrease in software release cycles and a 25% increase in deployment success rate
* Designed the creation of **VPC** including **subnet CIDR** calculations, configuration of subnets, deployment of **Internet Gateway**, setup of **Route table and Routes**, and establishment of **NAT Gateway** to optimize network infrastructure efficiency and scalability
* Directed cross-functional teams in the application of **SDLC** principles, leveraging **agile** methodology to enhance project efficiency and reduce time-to-market by 30% while maintaining high-quality deliverables
* 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
* Orchestrated the configuration of DNS hosted zones and A, CNAME records to optimize traffic flow; enhanced application availability by 25% and reduced latency by 30% through strategic routing adjustments
* Architected fault-tolerant Amazon EC2 systems with auto scaling and load balancing, ensuring peak performance for cloud-based applications; increased system reliability and maintained 99.9% uptime for critical services
* Implemented Amazon ElastiCache caching solutions to optimize application performance, resulting in a 40% reduction in database load and a 25% increase in response time
* Orchestrated complex **multi-tier** infrastructure deployments using Terraform, including virtual networks, compute instances, storage and security groups
* Involved in the incorporation of Terraform elements such as Locals, Data Sources, and Functions into module development, streamlining operations and achieving a 30% reduction in manual configuration tasks
* Orchestrated the creation and optimization of Docker containers, crafting images and files, and configuring **EKS clusters** with node groups and auto-scaling, ensuring seamless deployment on AWS infrastructure and integration with other 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
* Architected and fine-tuned Prometheus configuration to capture and share time-series metrics, tailored Grafana dashboards for in-depth analysis, and defined alerting mechanisms for monitoring and incident management, leading to a 50% decrease in critical system failures and improved operational efficiency

**Education:**

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

Sincerely,

Nagacharan Gudiyatham