SREENATH RANGANA
DevOps Engineer

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Professional Experience:

DevOps engineer with **3 years** of experience in On-demand **DevOps tools, Cloud technologies** and Infrastructure Management. Proficient in Configuration management tools, and developing CI/CD pipelines. Adept at managing **AWS, GCP and Azure** environments with implementing infrastructure as a code using **Terraform** and Hands-on experience with ARM Templates and CFT. To seek a challenging position in a company, where I can apply my creative skills, enrich my knowledge and grow continuously along with the company through consistent and dedicated smart work.

Professional Summary:

- Experience in **Linux systems** and Software Configuration Management, Build and release, DevOps, and Linux environment. Manage Services in **Ubuntu**.
- Worked on Amazon Web services Creating, configuring, and Managing **EC2, S3, VPC, IAM, Load Balancer, AutoScaling, Volumes-AMIS-Snapshots, CloudWatch, SQS, SES, SNS and ROUTE 53** services across AWS Zone.
- Worked on Version Control System-GIT & VCS Remote Repository **GitHub.**
- Ability to create projects in **GIT**, set configuration for GIT, setting GIT environment variables.
- Implement **CI/CD** for microservices application.
- Experience in using Continuous Integration tools like **JENKINS**
- Jenkins User Management – Create a User account, Delete user Account, Setup Authorization access to users
- Ability to manage **plugins** in **JENKINS** such as installing the plug-in, un-installing plug-in, upgrading, configure theplugin.
- Set up build triggers in Jenkins and Email notifications on the build.
- Hands-on using **MAVEN** build tool such as building a project as per maven required life cycle.
- Good Exposure to Containerization tools like **Docker Engine**
- Build Images using **Dockerfile, Pull** and **push images** from **Docker Hub.**
- Built Docker files to create containers using the Docker engine and other alternative build tools through GitHub actions.
- Good working experience in the **Kubernetes cluster environment**, and deploying the micro-services into the cluster environment with **Minikube, K3D & K3S**.
- Basic Knowledge on **Prometheus, Grafana & ELK**
- Written Medium blogs that will be successfully published -**Medium Blog**(https://medium.com/@sreenath_rangana96)
- Having Hands-on Experience on **POC Projects** using the tools **Git, Jenkins, Nexus, Ansible, ELK, Java, Nginx, Prometheus, Grafana, Styra DAS, ArgoCD, GIT, Istio, React, Nodejs, Mongodb, Terraform, Bit bucket/GitLab, Docker, Kubernetes.**

Technical Skills/Knowledge:

- **Cloud Technologies** : AWS, GCP & Azure
- **AWS (Cloud)** : EC2, VPC, S3, IAM, SNS, Cloud Watch, EBS, AMIS, Elastic Load Balancer, Auto Scaling.
- **Operating Systems** : Linux, Windows & Ubuntu
- **IDE** : IntelliJ, Visual Studio Code
- **Infrastructure Tools** : Terraform, Ansible
- **Technical Languages** : Shell Script, Bash Script, Java Script(beginner)
- **Authorization** : OPA (Open Policy Agent), REGO
- **Container Technologies** : Docker, Docker-Compose & Kubernetes
- **Build & Orchestration Tools** : GIT, Jenkins, ArgoCD, Maven
- **Monitoring** : ELK, Prometheus, Grafana
- **Data Bases** : My-SQL, Mongo DB
- **Ticketing Systems** : Fresh-Desk, Zen-Desk, JIRA & Pager-Duty

Professional Career:

Company – ZelarSoft Private Limited, Hyderabad
Designation – DevOps Engineer
Duration – March 2021 to Till Date

Project-1: Styra DAS(Declarative Authorization Service**)**

Styra DAS: Styra DAS uses a single language for expressing policy through a single software system for managing those Policies across a broad spectrum of software systems, including Kubernetes, microservices, public cloud, Linux, and databases. Styra DAS is the world's first enterprise-grade policy-development lifecycle and includes policy-based authoring, testing, distribution, monitoring, and logging.

Environment: Slack, Fresh Desk, ZenDesk, Styra DAS.
Role: Support Engineer
Reponsibilities:

- Handling customer requests, responding to their queries, providing reference documents to the customers, resolving the errors faced by the customers looking at the various logs with the help of the engineering team, and creating tickets for tracking purposes as a support engineer.
- Raising a ticket and addressing them or if it is a production issue alarm the higher levels or an on-call Engineer and Development teams so that issue can be solved ASAP if is not in production then work on the ticket to solve it.

Project-2: Kubernetes Security

OPA (Open Policy Agent): Open Policy Agent (OPA) is an open-source, general-purpose policy engine that unifies policy enforcement across the stack. OPA provides a high-level declarative language (Rego) that lets us specify policy as code and simple APIs to offload policy decision-making from our software. We can use OPA to enforce policies in microservices, Kubernetes, CI/CD pipelines, API gateways, Terraform, service mesh (Envoy, Istio, Kong), and more.

Environment: On-Premises
Role: OPA Engineer
Worked Technologies: GitHub, Kubernetes, Client Tool, YAML, CIS Benchmarks, NIST compliance Pack, PSP/PSA, Rego

Responsibilities:

- Assistance with StyraDAS & Implemented rego policies in Styra DAS for Kubernetes systems w.r.t pod security which includes NIST standards.
- Studied Compliance and regulatory standards according to CIS&PSP. Then Compiled a list of NIST rules as per the NIST guidelines, Detection, and prevention rules to maintain Kubernetes compliance.

Project-3: SNYK

Environment: On-Premises
Role: Cloud and K8s Security
Worked Technologies: Terraform, ARM, Kubernetes, Docker, AWS, AZURE, GCP, Rego, GIT and Linux.

Responsibilities:

- To Migrate and create cloud rules for any cloud misconfigurations.
- This Work involved working with cloud security teams to develop the product-policy engine that handles cloud misconfigurations.
- The Day-to-Day activities involved provisioning cloud resources using Terraform, CFT, YAML & ARM and writing policy code using Rego for multi-cloud platforms like AZURE, GCP and AWS.
- Validating and Implementing Customer Infrastructure(Azure, GCP, and Kubernetes) with OPA and Terraform/ARM.

Educational Qualification:

- ✓ MCA in Master of Computer Applications from Sri Venkateswara University, Tirupati, A.P in the year 2020.
- ✓ BSC in Computer Science from Sri Krishnadevaraya University, Anantapur, A.P in the year 2017.

Certifications:

- AWS Certified Solutions Architect – Associate.
- Google Cloud Certified Associate Cloud Engineer.
- Certified Kubernetes Administrator(Pursuing).