**Profile Information:**

**Full Name**: G.T.N. Subrahmanyam

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**Mobile:** +91 9440134812

**GitHub/Portfolio:**

**PROFESSIONAL SUMMARY:**

Worked as **QA Engineer** with hands-on experience in software testing and a strong passion for transitioning into **DevOps Engineering**. Skilled in implementing **CI/CD pipelines using Jenkins**, Git & Git-hub,writing **Dockerfiles** and building container images, and integrating Jenkins with tools such as **SonarQube**, **OWASP Dependency Check**, **Trivy**, and **Gitleaks** for secure and automated workflows. Experienced in managing **Kubernetes (EKS, K8s)** and **ECS** for container orchestration, and proficient in leveraging **AWS Cloud Services** for deployment, monitoring, and alert generation using **Cloud Watch**.

**Skills:**

**Cloud Skills**: AWS, GCP

**DevOps Tools**: Jenkins (CI/CD), Terraform (IaC), Docker, Kubernetes, Git, SonarQube, Trivy, Gitleaks, OWASP Dependency Check

**Programming**: java, Linux commnads

**Database**: My-SQL,MongoDB

**Monitoring & Logging:** AWS CloudWatch, Prometheus (Basics), Grafana (Basics)  
**Version Control:** Git, GitHub, GitLab

**Projects / Hands-on Work:**

**project-1:**

**AWS Service:** S3,Cloudfont,CloudWatch

**Describe Project:**

Implemented a static website and used Amazon CloudFront is a fast content delivery network (CDN) service that securely delivers data, videos, applications, and APIs to customers globally with low latency and high transfer speeds. Errors capturing connected cloud watch logs to monitor.

**Quantifiable Result/Impact:**

* Gained practical experience in integrating multiple AWS services for **end-to-end cloud deployment**.
* Automated monitoring through **CloudWatch alarms and log insights.**
* Configured **S3 Versioning and Cross-Region Replication**, ensuring data backup and high availability.
* Used Route-53 to Cloudfont and Route-53 to cloud watch to monitor logs.
* Versioning enalbing and understanding policy creation for accessing s3 bucket objects to other services in cloud.

**project-2:**

**AWS Service:** ECS,DOCKER,Docker Swarm

**Describe Project:**

Implemented a Java-based application by containerizing it using Docker. Created Dockerfiles for multi-stage builds to produce lightweight images, tagged and pushed images to **AWS Elastic Container Service (ECS)**, and managed container orchestration through **Docker Swarm** by configuring master and worker nodes. Integrated **Jenkins** for continuous integration to automatically trigger builds using webhooks whenever code was updated.

**Quantifiable Result/Impact:**

* Partical knowledge in implemeting pipeline structure in jnekins and connect with webhooks to initalize pipeline, whenever code updates.
* Tagging and pushing the images to cloud.
* Designed and implemented **multi-stage Dockerfiles**, optimizing image size and build performance.
* Configured and managed **multi-node Docker Swarm clusters**, ensuring service connectivity and scalability across different networks.

**project-3:**

**AWS Service:** lambda(Serverless),SNS,EC2,S3

**Describe Project:**

Developed **serverless automation** using AWS Lambda to trigger alerts and perform scheduled operations. Configured Lambda functions to monitor **S3 bucket events** (file uploads/modifications) and to **start or stop EC2 instances** automatically during working and non-working hours. Integrated **SNS (Simple Notification Service)** to send email notifications for system events and alerts.

**Quantifiable Result/Impact:**

* Gained practical experience in automating cloud tasks using **Lambda functions** and **cron expressions (EventBridge Scheduler)**.
* Implemented **event-driven triggers** for S3 object updates and EC2 instance lifecycle management.
* Used **SNS** to deliver real-time notifications via email for monitoring and operational visibility.

**project-4:**

**AWS Service:** kuberentes(k8s),EKS,DB

**Describe Project:**

Implemented a mini project to understand **Kubernetes architecture** and its components by creating and managing a cluster using **EKS**. Deployed applications through **Deployment** and **Service YAML files**, created **Namespaces**, and configured **resource limits** to manage pod performance and prevent OOM (Out of Memory) kills. Configured **Persistent Volumes (PV)** and **Persistent Volume Claims (PVC)** for storage management using AWS **EBS**. Integrated **Prometheus** and **Grafana** (via Helm charts) for pod and cluster monitoring.

**Quantifiable Result/Impact:**

* Understanding logs when creating pods and events genrated when cretaing and running pods in cluster.
* Understanding Quality of Services(QOS) what happen to pods not using resource when creating pods
* Understanding setup using kops and EKS and using kubectl tool for various command performing.
* Understanding how pv and pvc will work and how EBS will create using Storage classes in api-resources in K8s.
* Understanding K8s architecture from API-server, Etcd, Scheduler, Controller Manager in master node and kubelet, kube-proxy in worker node.

**Professional Experience :**

**Company/Role:** Varsity Educational Management pvt ltd/QA Engineer

**Duration:** june/2023-April/2025

**Responsibilities / Achievements :**

* Collaborated with developers and product teams during sprint cycles.
* Participated in sprint reviews, daily stand-ups, and UAT support.
* Logs monitoring using aws cloud watch.
* Designed and executed test cases, managed defect tracking via GitLab.
* Set up Jenkins freestyle pipeline for nightly regression builds and automated reporting.
* Worked for Mobile and webapplication and invloved in team meetings for 3-tier architecture.

**Company/Role:** Wizklub futurz(summercamp.srichaitanyaschool)/QA Engineer

**Duration:** june/2023-April/2025

**Responsibilities / Achievements :**

* Collaborated with developers and product teams during sprint cycles.
* Participated in sprint reviews, daily stand-ups, and UAT support.
* Logs monitoring using aws cloud watch.
* Designed and executed test cases, managed defect tracking via GitLab.
* Performed load test using jmeter and monitoring various loads in cloud for cpu utilization, peak load vitrual machine terminates.

**Education:**

Degree: **B.Tech/Sasi Institute of Engineering**

University: **JNTUK**

Year Of Graduation: **2016**

**Place: Hyderabad  
Date:**