ANNAVAJHULA SUBRAMANYA RAHUL
Aspiring Cloud and DevOps Engineer

Address: 6-56/1p, ECIL, Hyderabad, INDIA
Phone: +91-8106950477
e-mail: rahulsarma764@gmail.com

WORK EXPERIENCE

- **DevOps Engineer** at IQUANTELA TECHNOLOGIES, India   Feb-2019 to Present

- **Cloud & DevOps Intern** at POLYGLOT IT SOLUTIONS, India   June-2018 to Dec-2018

EDUCATION

K.L.University, India   **2014 - 2018**
B.Tech in Computer Science & Engineering

Gained analytical and programming skills
- ❖ Core knowledge in Software Engineering, Linux and Shell-Scripting.
- ❖ Various learning experiences through seminars, projects and technical presentations

Narayana Junior College, Hyderabad, India   **2012 - 2014**
Maths, Physics & Chemistry

TECHNICAL SKILLS

Devops:

- Worked on AWS using EC2, S3, EFS, RDS, CloudWatch, AWS AutoScaling, CloudFormation, CloudFront, Route53, IAM, SNS, SQS, SES.Hosted Static and Dynamic Web applications manually.
- Ansible, Jenkins, Docker, Version Control System(git, GITHUB), SonarQube.
- Integrated Vagrant with Ansible to host php registration form and Wordpress application.
- Created fully automated CI build and deployment infrastructure and processes for multiple projects.
- Deploying and maintaining DEV, QA, Production environments using AWS EC2 instances and ECS with Docker.
- Container management using Docker by writing Docker files.
- Installing and configuring Terraform and building the infrastructure using Terraform configuration file.
- Installing and configuring MySQL for production environments.
- Experience in deploying system stacks for various environments like DEV, UAT, Production on both on-premise and cloud Infrastructure.
- Installing and Configuring vault Hashicorp.

AWS:

- AWS EFS, Lambda, VPC's, Elastic-Load-Balancers, S3, EC2, Elastic-Bean-Stalk, Cloud-Watch, Cloud-Trail, Elasticsearch-Service, SES, SQS, SNS, RDS, Snowball, Cloudfront, Route53, Code-Deploy, IAM, EC2 AMI Migration, S3 Migration, Auto-Scaling, Elastic-Ip's.

Linux:

- RHEL, CentOS, ubuntu,
- User & Group Administration and Disk Management,
- FTP Server, NFS, Samba, DHCP, HTTP, Nagios core, ShellScripting.
- Configuring and hardening of new servers for production environments.
- Worked on Linux File system, Automatic Job Scheduler, Memory, Package, Disk & Logical Volume Management, RAID, User & group administration, SSH, ApacheWebserver, tomcat, Samba, NFS, DNS, DHCP, FTP.
- Configured LAMP using Ansible, and hosted registration form, Wordpress application.

EXPERTISE:

- WSO2 API-Gateway, Elasticsearch, Postgres, Kafka-Zookeeper, Redis, ELK Stack,Filebeat, Nginx [Proxy], XtreemFS, Metricbeat, Heartbeat, Grafana, kurento, keep-alived with Nginx.
- Microservice Architectures.
- HA and NON-HA environments setups using ansible.
- Shell-Scripting, Shell-Script for automated backups.
- Product Engineering.
- Apache-Groovy.
- Jenkins (Scripted-Pipeline/Declarative-Pipeline).
- Ansible, Docker, Terraform, kubernetes.
- DEV, QA, Pre-Production, Production Deployments using Ansible.

PROJECTS

- **WSO2 API-Gateway integration with Microservice Architecture**
  Description: This project aims to determine the communication of application interface between angular application and node application, where individual microservice APIs which were developed by developers will be published as a group of API's called swaggers in WSO2 API gateway publisher and they will be subscribed.

- **ElasticSearch Integration with Microservices Architecture**
  Description: The aim of the project is to store data in the form of records at index level of elasticsearch, where each index is related to individual microservice. This elasticsearch is integrated at microservice level configuration, which helps in storing microservice related data.

- **Filebeat Integration with Microservices Architecture**
  Description: Filebeat monitors the log files or locations, collects log events, and forwards them to Logstash. It is installed as an agent in a microservice server. This project aims to send logs of different microservices to centralized logging servers.

- **ELK Stack integration for central logging mechanism with Microservice Architecture**
  Description: ELK stands for Elasticsearch, Logstash, Kibana. These are the three important components used at microservice level. The aim of the project is to store the microservice logs in a centralized logging server, which helps in visualizing access & error logs in Kibana.

- **Nginx Proxy for Web-Application**
  Description: In this project, we use Nginx proxy to load balance the incoming requests to Angular Web-Applications.

- **Metricbeat integration with ELK**
  Description: The aim of the project is to monitor the overall VM level statistics. We will be sending all VM level metrics to the elasticsearch of centralized logging server [ELK]. After sending we will be using the Elastic indices in the Grafana monitoring tool, to visualize each and every VM statistics.

- **Heartbeat for port monitoring in VM**
  Description: The main aim of this project is to monitor the ports which were running across the VM. We will be sending all the VM level metrics to the same Elastic index which is used for VM level metrics. After sending all the metrics to the index, we will be monitoring all the ports from the Grafana log monitoring tool. Also we will be configuring SMTP details to send port alerts as an email.

- **Grafana Integration with Microservice architecture**
  Description: Grafana is a monitoring tool which helps in visualizing all VM statistics. The main of this project is to visualize port level monitoring, VM level monitoring which are CPU, RAM, DISK-USAGE. Moreover we will be considering and visualizing the status of microservice ports and the amount of cpu usage of service in a VM.

- **Redis Integration with Microservice Architecture**
  Description: Redis is used for in-memory caching mechanism. The main aim of the project is to serve any web-application request from caching itself. Here caching means buffer memory. Hence the backend services will be serving a limited number of requests, if and only if buffer memory does not contain any data regarding the incoming request.

CERTIFICATIONS & ACHIEVEMENTS

- **AWS Certified Cloud-Practitioner.**
- **Microsoft Certified Azure Fundamentals.**
- **Microsoft Certified Azure Administrator Associate.**
- **Certificate of Excellence** at IQuantela, for outstanding contribution and exemplary Leadership.
- **High-Five Award** - recognition for extraordinary work during COVID-19.

STRENGTHS

- Self Analysis, PositiveAttitude, Team player, Adaptable, Self – Motivated person, Event Management and Sociable.