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Professional Summary

To design highly scalable and fault-tolerant systems for an esteemed organization, which would be rewarding in terms of learning experience and contribute to organizational and personal growth.

Experience

- **BETSOL**
  Associate Site Reliability Engineer *Jan. 2021 – Present*
  - Automated the creation of AKS clusters using Terraform Templates.
  - Designed and implemented an Azure Web Application Gateway to perform path-based routing based on the content present in the HTTP request headers.
  - Setup Cloudflare DNS zones via Terraform and was actively involved in performing CURD operations for DNS A records, Page rules and SSL certificates.
  - Automated the creation of an Azure Compute Image with the help of Packer, Jenkins, and Nexus.
  - Created Ansible roles to call web services which configured the Virtual Machines on First Boot.
  - Designed and implemented the networking model of the project including partitioning the VNETs into component-based subnets, implementing VNET peering across regions to facilitate communication across the different entities of the solution.
  - Worked on Terraform Cloud in order to setup Infra on Azure such as VNETs, Subnets, VMSS, KeyVaults and Created a CI/CD Pipeline for the same via Jenkins.
  - Observability as Code - DataDog Alerts creation using Terraform to monitor the health of AKS nodes, Container restarts etc.
  - Was involved in making hot fixes, Provided support in the roll-out and deployment of new application features to facilitate iterative development.
- **KodeKloud Engineer**
  DevOps Engineer Nautilus, xFusionCorp
  Worked as a System administrator and DevOps Engineer in a fictional company named "xFusionCorp" on their website named "kodekloud".

Projects

- **Avaya Proactive Outreach Manager - Component of CCaaS**
  Packer, Jenkins, Ansible, Terraform, Azure
  - The goal of this project was to migrate an application which was hosted on-prem to Microsoft Azure.
  - Since the application was a monolith, The decision was made to use Packer create an Image via a Jenkins Pipeline which was then stored in the Azure Shared Image Gallery.
  - Once the image was created, Terraform was used to deploy the image as a VM onto Azure. The application also had an external Azure Postgres Server for storing the created Databases.
  - Post VM deployment, The configuration of the machine was handled by Ansible roles which were fed into a Linux Daemon to be run whenever the VM restarted or on its first boot. In a nut shell, the configuration of the VM included calls to the API's handling the product and also performed certificate exchange to establish trust with the clients.
- **Terraform Cloud Workspace Creation - Automation**
  Terraform Cloud, Shell Scripting, Jenkins
  - The goal of this project was to create Terraform Cloud Workspaces without any manual intervention.
  - Here, I wrote a bash script which established an API Driven workflow for Terraform Cloud, thereby creating workspaces and populating them with workspace-specific variables.
- **Azure Kubernetes Cluster Creation and Upgrades - Automation**
  Terraform Cloud, Azure AKS, Shell Scripting, Jenkins, Terratest
  - The goal of this project was to automate the process of creating and upgrading Azure Kubernetes Clusters.

- Terraform Scripts were written by using native terraform resources provided on their official website. A wrapper shell script was added to call the Terraform scripts via Jenkins. Finally, Testing of the entire approach was performed via Terratest.

- **Migrating from a Relational Database to AWS DynamoDB**
  AWS DMS, AWS EC2, AWS DynamoDB
  - The goal of this project was to migrate a normalized relational database to an Amazon DynamoDB table in order to optimize on cost savings.
  - The various tasks involved were investigating the source database(relational), designing the data model and creating the DynamoDB table, creating the DMS task mapping rules and finally testing the access patterns.

- **WordPress Deployment to AWS using Ansible and Terraform**
  AWS IAM, VPC, S3, Route53, ELB, ASG, RDS, Ansible and Terraform
  - Deployed a wordpress blog in order to understand the interactions between various AWS services and used infrastructure orchestration tools to automate the deployment through scripts and minimize manual work.

- **AWS Site-to-Site VPN**
  AWS EC2, AWS VPC
  - Created an AWS Site-to-Site VPN connection using 2 AWS VPC's in different regions altogether.
  - The process of creating the VPN connection was carried out by installing and configuring a software-based customer VPN gateway running on an EC2 instance. Openswan was used as the VPN solution as it provides a complete IPsec implementation.

- **Monitoring Kubernetes Applications using Prometheus and Grafana**
  Kubernetes, Prometheus, Grafana
  - Installed and configured prometheus and grafana in a kubernetes cluster.
  - Setup basic grafana dashboards to chalk out application specific as well as cluster specific performance details.
  - Prometheus was used to collect raw data from the cluster whereas Grafana was used to display graphs, heatmaps etc.

Certifications

- CNCF Certified Kubernetes Security Specialist
- Microsoft Certified - Azure Administrator Associate
- AWS-Certified Solutions Architect Associate Level
- CNCF Certified Kubernetes Administrator
- HackerRank-REST API(Intermediate Level)
- Coursera-Specialization Certification- Cloud Architecture with Google Cloud
- Scored **170/190** in *Cambridge Business English Certificate - Vantage Level*
- Database Management Systems and Cloud Computing certified by NPTEL

Technical Skills

- **Languages**: C, Python, Java, MySQL, JavaScript(Node.js)
- **Cloud Services**: Amazon Web Services, Azure, Google Cloud Platform
- **Version Control**: Git
- **Container Technologies**: Kubernetes, Docker, Service Meshes(Istio)
- **Monitoring Tools**: Prometheus, Grafana
- **DevOps**: Linux, Jenkins, Ansible, Terraform, Chef, Packer

Education

- **Vardhaman College Of Engineering** — Hyderabad, India
  Bachelor of Technology in Information Technology; CGPA: 9.13 — *Aug. 2016 – Sept. 2020*