**Technical Summary**

Working as a Solutions Architect with hands-on experience with designing, implementing & configuring Infrastructure Management, Configuration Management & Observability Components.

Managed AWS Services via Terraform, Ansible & deployed Microservices on Kubernetes Clusters via Kube Manifests setting up through Kustomize & Helm Setups.

Designed Data Lake systems using Kinesis ‘Data Analytics & Data Steams & Data Firehose.

Handled Service Migrations from on-prem to AWS Cloud and performed Architecture Reviews for guidance on service migrations & generated cost-analysis reports.

Managed scripting using Bash & Python when setting up Automation for CI/CD pipeline deployments & handling AWS Automation using Lambdas.

Handled clean code checkout processes using GitOps techniques like Kustomize, Helm, Semantic Versioning, Changelog & Promotional Approvals.

Setup ELK, Splunk & Prometheus/Grafana for setting up logging & metrics scope.

Setup & Managed pipeline deployments using ArgoCD, Gitlab & Jenkins.

**Skill Sheet**

|  |  |
| --- | --- |
| **Platform** | **tools** |
| IaC (Provisioning, Deployment, Configuration, Orchestration | terraform, Helm, Ansible, Puppet |
| container platforms | docker/kubernetes |
| cloud | aws, azure |
| scripting | bash, python |
| Version Control | gitlab, github, bitbucket |
| ci/cd | jenkins, gitlab, argocd |
| Data Lake | aws kinesis Data Streams, Amazon Kinesis Data Analytics, Amazon Kinesis Data Firehose |
| Databases | postgres, mongodb, sql |
| obserability | elk, prometheus/grafana, splunk |
| messaging brokers | kafka, rabbitmq, activemq |

**JPMC” Sterling – va**

**DevOps / Solutions Architect | January 2023 – June 2023**

Designed & implemented the deployment/upgrade structure for JPMC’s newly developed AMI’s for Private Banking Client usage.

Customized RHEL & Windows AMI’s based on JPMC’s policies & security guidelines using Ansible.

Deployed & customized the home-grown & third-party software’s using Ansible Scripting on top base AMI.

Managed Jenkins pipelines with leveraging Groovy scripting for AMI setups.

Incubated Open-Telemetry scope for the Service data & integrated into these newly deployed AMI’s.

Setup Observability stack (Splunk, ELK, Prometheus/Grafana) for tracing metrics & logs for data visualization.

Setup AWS Services as Kinesis for data Analytics, Secrets Manager for handling data secrets & Postgres credentials.

Written Terraform modules for AWS Service/Infrastructure Deployments.

Worked on AWS Lambdas (Python based) for Job Automations (token based).

Worked as a primary consultant and handling team of 9 people for Project Delivery.

**AWS” Herndon – VA**

**Sr. Technical Consultant / DevOps | March 2022 – December 2022**

Managed Customer Operational aspects and advocating their technical needs

Handled two Major Migrations into the cloud from In-House Data Centers. Managed entire operational aspects from AWS for migrations.

Written Technical Guidance and Documentations for handling lift & shift for Data Center Migrations.

Worked on Cost Reductions (by streamlining workloads) for Customers by assisting with new Solutions & AWS’s own Cost Reduction programs.

Enhanced Cross Team communication for smooth deliverables & transitions of information between DevOps, Security, Solutions Architects, Cloud Operations teams.

Pro-Active engagements with Customer internal teams for understanding their future needs & assisting (scheduling) with any training needs.

**QOMPLX, INC.” Tysons Corner - VA**

### Sr. Platform Engineer/Solutions Architect/DevOps | August 2020 – March 2022

Worked on automating Infrastructure Modules using Terraform and setting up Gitlab pipelines for deployments.

Instrumenting Infrastructure using AWS Cloud Services including automating the deployments of AWS resources.

Setup Amazon Elastic Kubernetes Services (EKS) and deployed the manifests for managing the Kubernetes services.

Setup Kube manifests for deploying the development services on EKS

Implemented ConfigMap Generator, Kubeval & Kustomize for deployments for Dev teams using Gitlab.

Setting up Infrastructure for deploying streaming based applications for in Amazon Kinesis services

Worked on setting RDS (PostgreSQL Databases) for internal QOMPLX Development teams.

Migrated & configured secrets from HashiCorp to AWS Secrets Manager and set them up for PostgreSQL Credentials.

Handled setting up Persistent Volumes for Kubernetes Clusters.

Designed, automated & deployed the AWS Elasticsearch service for entire QOMPLX customers.

Implementing Flink pipelines for automated Data streaming. Migrated Flink pipelines into AWS family by designing Data Lake systems using AWS KDA (Kinesis Data Analytics) & Kinesis Data Firehose.

Worked on implementing automated pipelines for code deployments using Gitlab and configuring Gitlab Runners

Setup automated deployments off Amazon Kafka setups (MSK) for in-house data buffering solutions using Terraform.

Setup automated deployments off Cortex, Loki, Kibana & Grafana Setups for visualizing the logs/metrics.

Setup MongoDB setups on DC/OS service setups for data retrieving from services.

Setup Automated Deployments for Elasticache, Postgres, Amazon Kafka, Elasticsearch, EKS, Syslog, Grafana, Kibana, AWS Services (S3, IAM, Security services) using Terraform.

**CDK Global” Hoffman Estates - IL**

### Site Reliability Engineer | June 2014 – August 2020

Worked on CentOS & Windows Server Architecture for managing the technology around in that eco-system.

Worked with Puppet for centralized orchestrating and managing software’s on the infrastructure.

Setup AWS for the Server Migration from in-house to Private Cloud and configured all individual pieces of base configuration in AWS: EC2, VPC, ELB, S3, AutoScalingGroups, IAM, EBS, RDS, Route 53, CloudFormation, CloudWatch, CloudTrail, CloudFront.

Worked on Terraform for infrastructure deployments into AWS including EC2 instances, RDS, S3 & other AWS Services. Worked on enabling the monitoring for the RDS & EC2 instances using Terraform.

Worked on Ansible for automating the deployments and provisioning the infrastructure. Worked with Development teams for straight-lining the code deployments with Ansible.

Worked on containerizing Docker images using Kubernetes.

Architected the Elasticsearch Setup in-house with Redis as request holder (in-memory) and Logstash server for grok’g the data and dumping them to the Elasticsearch Data Nodes with Kibana to analyze/view the data.

Setup Consul for Service Registry where multiple build versions need to be managed within same host setups.

Setup Akamai routes for content delivery & utilizing F5 for security (SSL offloading) & Nginx for Service Routing (load balancing the data routes between multiple hosts) the infrastructure & with Elasticsearch for analyzing the log data & setting Servers with “SCOM (windows), Nagios (Centos) & Zenoss (combined)” agents for monitoring the systems.

Managed Piwik Analytics Platform with MySQL as backend Database along with utilizing MySQL C API Setup for managing & editing the functionalities (ex: memory allocations and buffering limits).

Worked on RabbitMQ Clustered Setups and automated the deployments (queues, plugins) using Puppet.

Automated Splunk/Collectd instance setups using Puppet & Ansible for setting Logging/Monitoring pieces.

Worked on Grafana boards to setup dashboards for the Server stats & analyzing Elasticsearch & Zenoss Data (Data Sources).

Maintained and worked on Databases like Microsoft SQL Server, GemFire XD setups for all API related DB calls.

**McGraw-Hill” East Windsor - NJ**

### Sr. Systems Engineer| April 2014 – June 2014

Worked at McGraw-Hill for a temporary project where I engineered their internal systems to provide an Automated Deployment Solutions.

Self-trained Linux with lite Java coding and worked with the internal teams to build the Web Server farm with multiple Linux Systems (red hat) and WebLogic & WebSphere Application Servers behind the Scene.

Worked closely with the technical architecture & development teams for building the new Infrastructure Components.

Most of the tasks were around setting up pre-zipped war files in WebSphere Servers. Developed internal desktop messenger.

**KPMG” Montvale – NJ**

### Sr. Infrastructure Engineer | March 2012 – April 2014

Lead a team for setting up KPMG’s Infrastructure which hosts auditing related applications.

Managed Windows Servers and SQL Servers Database Setups. Managed IIS code & in-house build .Net applications analyzing the network, application performance, data modeling before we ship the applications to KPMG Globally.

Managed Hyper-V & VMware setups for managing Windows Servers and Network connections for managing Windows Servers & Servers in Azure Public Cloud.

Worked heavily on deployment program for Microsoft’s SCCM 2012 R2 & Orchestrator 2012 R2.

Architected, build and setup SCCM 2012 R2 CAS, primary & Secondary Servers where the setups managed servers globally for all KPMG Clients.

Worked to create Microsoft System Center Orchestrator Runbooks (using PowerShell) for automated application deployments and for managing Infrastructure components.

**TARGET” MINNEAPOLIS-MN**

### Lead Windows Administrator | March 2011 – January 2012

Worked as common team player within 5 team Administrators where we managed Physical Servers with deploying Windows Server OS and managing WSUS across Target multi-Datacenters.

Managed code deployment on Windows Servers on Multi Datacenter level for the high availability including the Failover Clustering between Multi Datacenters.

Managed Virtual Machines using Hyper-V and administrated the Anti-Virus protection for the Virtual Servers including the 1500 Virtual Desktops deployed on top of Virtual Servers.

Managed Active Directory by setting up the group policies for the required Organizational Units. Plus, setting up the Symantec Backups for regular/weekly/monthly backup plans.

**Presbyterian Health Services” Albuquerqe-NM**

Application Administrator | April 2010 – October 2010

Managed mixed cultured technical pieces in Presby where I ended up worked on IIS (.Net code) & WebSphere Application Server (Java) setup where code resides.

Managed Oracle database’s and the used tools around Oracle eco-system to manage Oracle enterprise Databases.

Performed WebSphere Migration Project internally along with the internal application migration.

**TEKPROS” DALLAS-TX**

### SQL Developer | January 2009 – January 2010

Joined as an intern straight from college with little database knowledge (few courses in my Masters) helped me to gain knowledge on SQL Development and Database Administration. Started learning IIS & basic tools including Network Monitor, Process Monitor, Performance monitor. Learned Load Balancing techniques.

### Education

### Master’s Degree – MSEE

### Gannon University | 2007 – 2009

### Bachelor’s Degree – B.Tech

### Anurag Engineering College | 2002 - 2006