**SUMMARY:**

As a cloud architect **certified in AWS, Azure, and Kubernetes** with 15 years of professional experience in cloud computing, SME, DevOps, and systems engineering, I have a strong track record of achievements in a variety of roles. I have a strong understanding of cloud architectures and a proven track record of designing and implementing cloud solutions using various **PaaS** and **IaaS** services. Expert in containerized legacy applications and converted them into microservices using **Docker, Kubernetes, and EKS/AKS**. Experienced in creating workflows and actions for **CICD** using **GitHub Actions**, designing and developing microservices, and managing the configuration management of various cloud resources using **Ansible** and **Helm** charts. Proficient in writing Dockerfiles using **Go**, with a strong understanding of containerization concepts and best practices. Design and mentor the team to create training modules and runbooks to onboard new resources and applications and have worked closely with senior architects and team leads to develop **Agile** sprints planning.Gained a wealth of experience in **Snowflake** administration, including the setup, configuration, and maintenance of snowflake databases. Designed and Implemented **Databricks** which includes, responsible for the setup, configuration, and maintenance of Databricks environments for a variety of applications.

Overall, I am a well-rounded and highly skilled professional with a strong track record managing large group of teamsfor delivering results. I am confident in my ability to bring value to any organization as a technology and software development professional, and am excited to continue learning and growing in this field.

**CERTIFICATIONS:**

* **Amazon web services** Solution Architect-Associate
* **Micro soft azure** Microsoft Azure Architect Technologies
* **CNCF** Certified Kubernetes Administrator

**PROFESSIONAL EXPERIENCE:**

**Maryland Health Benefit and Exchange Baltimore, USA June 2022–Till date**

**Role: Senior DevSecOps/Cloud Engineer**

**Project: DR Migration**

**Responsibilities:**

* Automated the process of executing Terraform code across multiple modules and environments using
* Terragrunt, improving the efficiency of infrastructure deployment and management.
* Managed infrastructure across multiple projects and environments using composite modules, enabling consistency, and reducing duplication of effort.
* Created EKS clusters using Fargate, implementing best practices for scalability, reliability, and security.
* Implemented OIDC providers to interact with Kubernetes resources on EKS clusters, improving security and access control.
* Installed Helm charts using Terraform, streamlining the deployment of complex applications andservices on EKS clusters.
* Installed and configured ArgoCD on EKS clusters, providing a powerful tool for continuous deployment and delivery.
* Utilized Kustomize for manifest creation and implementation based on overlay environment, improving efficiency and flexibility of EKS deployments.
* Created AWS resources using the AWS Cloud Development Kit (CDK)
* Utilized Go's standard library and third-party packages to create lightweight and efficient Docker images that can be easily deployed and scaled.
* Developed and maintained Docker images using Go templates, streamlining the Docker image creation process and reducing the chances of errors.
* Developed CICD workflows and actions using GitHub Actions and AWS services, resulting in a reduction in deployment time and improved deployment efficiency.
* Used infrastructure as code (Terraform) to deploy various cloud resources, resulting in an increase in deployment efficiency.
* Led the development of AWS CDK Python scripts to automate preconfigured applications as a package, resulting in a reduction in manual deployment efforts.
* Integrated SNYK for code, container, and vulnerability scanning as part of CI/CD, resulting in a more secure deployment process with a significant reduction in vulnerabilities identified during the deployment process.
* Developed EKS clusters, cluster resources, and ingress controllers using Terraform, resulting in a more efficient and streamlined deployment process.
* Led the migration of complex applications from on-premises environments to the AWS Cloud, resulting in increased availability and cost savings.
* Successfully migrated on-premises infrastructure components to the AWS Cloud, including physical servers and virtual machines, resulting in improved agility and scalability.
* Implemented database migration solutions using AWS services such as AWS Database Migration Service, resulting in improved data management and cost savings.
* Led the application migration of large-scale web and mobile applications to the AWS Cloud, resulting in increased availability and scalability.
* Leveraged **iaC (Terraform)** to deploy various cloud resources using bootstrap runners' actions, leading to an increase in deployment efficiency.
* Successfully implemented AWS Database Migration Service to migrate on-premises databases to AWS, resulting in a more efficient and secure migration process.
* Leveraged AWS Server Migration Service to migrate on-premises servers to AWS, resulting in a reduction in migration time and effort.
* Utilized AWS CloudFormation to automate the deployment of infrastructure during the migration process, resulting in a more efficient and streamlined migration.
* Leveraged AWS Application Discovery Service to discover and inventory applications running in the on-premises data center, resulting in a more comprehensive understanding of the environment and better planning for the migration.
* Used AWS Snowball for large-scale data migration, resulting in a more secure and efficient data transfer process.
* Proficient in using Terratest, a Go-based testing framework, to write and automate tests for Terraform modules and templates, ensuring their functionality and compatibility across multiple platforms.
* Maintained and developed test suites for Terraform modules and templates using Terratest, resulting in faster and more reliable testing of infrastructure resources.
* Utilized Go's standard library and third-party packages to write and execute tests
* Utilized AWS Direct Connect to securely transfer data between the on-premises infrastructure and AWS, resulting in a more secure and efficient migration process.
* Utilized AWS Identity and Access Management (IAM) to manage user access and permissions to AWS services and resources during the migration process, resulting in a more secure and controlled migration.
* Developed a framework to manage configuration management using Ansible, resulting in a reduction in configuration errors and a more streamlined configuration process.
* Created Helm charts to deploy complex microservices on Kubernetes clusters, resulting in a more efficient and streamlined deployment process.
* Developed and managed data pipelines using GitHub actions and AWS services, resulting in an increase in data processing speed and a more efficient data processing pipeline

**Amdocs TX, USA June 2021–May 2022**

**Role: Senior Cloud Architect**

**Project: AT&T Cloud migration**

**Responsibilities:**

* Successfully architected cloud **architecture diagrams** for on-prem applications, resulting in an increase in the accuracy of the migration plan.
* Reviewed and provided feedback to other cloud migration architects, resulting in a improvement in the quality of the migration plans.
* Developed **patterns, jumpstart kits, and shapemodelers** for the cloud assessment, leading to a reduction in the time required to assess applications for migration.
* Identified inbound/outbound **interfaces** of on-prem applications for the cloud migration, resulting in a more accurate and comprehensive migration plan.
* Utilized **PE, PLS, Azure PaaS, and Azure IaaS** services in the migration environment, resulting in a more efficient and effective migration process.
* Developed deployment design documents and **target architecture** diagrams, resulting in a more clear and detailed migration plan.
* Configured applications security with **Okta** integration for federated identity management
* Developed **cutover strategies** and database migration strategies, leading to a more seamless and successful migration process.
* Deployed applications using **webapps, logical apps, and function apps**, resulting in a more efficient and effective deployment process.
* Created and managed a Docker deployment pipeline for custom application images in the cloud using Azure and third-party resources, resulting in a more streamlined and efficient deployment process.
* Created a parallel stack of Azure infrastructure using **Terraform** for the disaster recovery environment, resulting in a more robust and reliable disaster recovery plan.
* Created **HA proxy and F5 load balancers** to route traffic to app servers using **Ansible** playbooks, resulting in a more efficient and effective traffic management process.
* Converted legacy applications into containerized microservices with **Docker, Kubernetes, and AKS**, resulting in a more efficient and scalable deployment process.
* Troubleshooted application and infrastructure-related issues, resulting in a more stable and reliable production environment.
* Worked with the network team on ACL-related activities and the DBA team on database activities, resulting in a more seamless and collaborative process.
* Created and maintained production deployment pre-release notes and post-deployment activities in the runbook, leading to a more organized and efficient release management process.
* Maintained a team and application inventory of target deliverables with efficient release management practices, resulting in a more organized and efficient release process.

**Sephora CA, USA Feb 2021 – May 2021**

**Project: IBM sterling migration**

**Role: Cloud migration Specialist**

**Responsibilities:**

* Successfully architected Microsoft **Azure IaaS and PaaS** offerings in a commercial tenant, resulting in an increase in the efficiency of the Azure environment.
* Developed Application Insights, resulting in an improvement in application performance and reliability.
* Converted legacy **IBM services** such as **IBM sterling** and B2B into microservices, resulting in a more scalable and efficient architecture.
* Created Azure resource templates, policies, and governance plans, leading to a more organized and compliant Azure environment.
* Automated configuration management activities such as Sterling and **JDK** installation using Ansible deployments, resulting in a more efficient and error-free process.
* Successfully migrated a database from an **Equinix datacenter** to Azure cloud, resulting in a more efficient and reliable data management process.
* Upgraded a database from**Oracle 11g to 19c** and successfully deployed and tested the application with different schemas, resulting in improved performance and reliability.
* Implemented CICD pipelines from Azure cloud to on-premises using **Rundeck**, resulting in a more efficient and reliable deployment process.
* Worked extensively with Azure virtual machines, scale sets, container registry, database, **DNS, VPN, firewall, load balancer, and active directory**, resulting in a thorough understanding and expertise in these technologies.
* Mapped Azure Active Directory to the organization's AD, resulting in a more seamless and integrated authentication process.
* Implemented **Azure Site Recovery** and Azure backups for the migration from on-premises data centers to Azure Cloud, resulting in a more robust and reliable disaster recovery plan.
* Implemented Helm charts to define, integrate, and deploy complex Kubernetes applications, resulting in a more streamlined and efficient deployment process.
* Deployed web and service-based applications in Windows/Linux environments, resulting in a more versatile and flexible deployment process.
* Used **Azure Terraform** to deploy the infrastructure necessary to create development, test, and production environments for a software development project, resulting in a more efficient and automated infrastructure deployment process.
* Created and maintained Kubernetes clusters for app and data zones, resulting in a more scalable and reliable deployment environment.

**Centers for Medicare &Medicaid servicesMD, USA Feb 2020 – Jan 2021**

**Project: IDOS**

**Role: Lead DevOps/Cloud Engineer**

**Responsibilities:**

* Successfully architected and produced reusable templates, policies, and governance plans, resulting in a more efficient and effective management of Azure resources.
* Developed expertise in Azure virtual machines, scale sets, container registry, database, DNS, VPN, firewall, load balancer, and active directory, resulting in a thorough understanding and ability to utilize these technologies.
* Implemented Azure Site Recovery and Azure backups for the migration from on-premises data centers to Azure Cloud, resulting in a more robust and reliable disaster recovery plan.
* Implemented Helm charts to define, integrate, and deploy complex Kubernetes applications, resulting in a more streamlined and efficient deployment process.
* Deployed web and service-based applications in Windows/Linux environments, resulting in a more versatile and flexible deployment process.
* Optimized and enhanced the trusted policies on IAM role
* Utilized Go's built-in package manager, **Go** modules, to manage dependencies in Docker images, resulting in reduced image size and improved performance.
* Leveraged Go's concurrency features, including goroutines and channels, to manage multiple processes and tasks efficiently within Docker containers.
* Used Azure Terraform to deploy the infrastructure necessary to create development, test, and production environments for a software development project, resulting in a more efficient and automated infrastructure deployment process.
* Created and maintained Kubernetes clusters for app and data zones, resulting in a more scalable and reliable deployment environment.
* Created development and testing environments from on-premises to cloud-based, resulting in a more efficient and flexible development process.
* Deployed highly-available, scalable, and secure applications within AWS accounts, resulting in a more reliable and secure production environment.
* Worked effectively in a DevOps environment with teams, managers, business units, and stakeholders, resulting in a more collaborative and efficient development process.
* Automated manual tasks using shell scripts, resulting in a more efficient and streamlined process.
* Implemented backup and disaster recovery plans to ensure the availability of the ZooKeeper data.
* Collaborate with development teams to integrate ZooKeeper into their applications and ensure that they are using it effectively.
* Ensure the security of the ZooKeeper clusters, including access control and network security.
* Demonstrated expertise in cloud and **DevOps** practices and implementation, resulting in a valuable subject matter expert for the team.
* Configured and managed userdata script to launch security tool agents such as Nessus, forgeRock and OpenAM
* Developed custom libraries using **Groovy** and Python for reusability of code in **Jenkins** pipelines, resulting in a more efficient and effective CI/CD process.
* Created Azure key vault, storage accounts, and **App Insights**, resulting in a more secure and efficient management of Azure resources.
* Integrated Azure Log Analytics with Azure virtual machines for monitoring log files, storing them, and tracking metrics, resulting in a more efficient and effective monitoring process.
* Evaluated customer virtual machines and network configurations, reviewed and recommended migration strategies, and migrated existing environments, resulting in a more efficient and effective migration process.
* Identified opportunities to automate scripts for software builds and deployments, resulting in a more

**DHS (Department of Human Services) Linthicum Heights, MD Oct 2018 –Jan 2020**

**Role: Senior DevOps Engineer**

**Responsibilities:**

* Create and configure **Selenium automation** testing pipelines in different environments
* Successfully created and configured Selenium automation testing pipelines in various environments, resulting in a reduction in manual testing efforts and an increase in testing coverage.
* Configured **Apache web server** in the Linux AWS Cloud environment using Ansible automation, improving the reliability and performance of the web server.
* Configured Apache web server and **JBoss** application server in the Linux AWS Cloud environment using Ansible automation, improving the efficiency of the application server.
* Implemented Kubernetes to build and maintain Docker container clusters for the **Jenkins** runtime environment, improving the speed and reliability of builds.
* Configured RDS with Amazon Elastic Compute Cloud (EC2) instances to run a web application, and configure the application to use RDS as the database
* Configured DS as a source of data for big data processing and analysis. RDS used with Amazon EMR
* Created the OIDC provider for security and implemented Firewall and access controll
* Created Terraform scripts to dynamically orchestrate various environments, resulting in areduction in the time required to set up new environments.
* Used Terraform to build and destroy infrastructure, improving the flexibility and efficiency of infrastructure management.
* Configured and managed identity manager for security managment
* Created Manifests for deployments, services, CICD pipelines for EKS deployments
* Maintained and administered the **Splunk** logging tool, reducing the number of repeated issues and exceptions.
* Set up multiple Kubernetes clusters running in various Amazon accounts and regions for the **MDThink**Platform, improving the scalability and reliability of the platform.
* Created complex **JIRA** workflows including project workflows, screen schemes, permission schemes, and notification schemes, improving the efficiency and effectiveness of project management.
* Created Terraform modules for the deployment of various applications across multiple environments, improving the speed and reliability of deployments.
* Managed Kubernetes clusters using ansible and manual configuration, improving the stability and performance of the clusters.
* Used Kubernetes to orchestrate the deployment, scaling, and management of **Docker** containers, improving the efficiency and reliability of container deployment.

**ADP NJ, USA Jan 2017 – Sep 2018**

**Role: DevOps/AWS Engineer**

**Responsibilities:**

* Successfully installed, configured, and troubleshot Amazon AWS EC2 cloud services on various Amazon images, including Amazon Linux AMI, Redhat, and Ubuntu, resulting in an improvement in the reliability of the cloud services.
* Designed AWS Cloud Formation templates to create custom-sized VPCs and subnets, improving the success rate of web application and database deployments.
* Designed and deployed large applications using almost all the AWS stack, with a focus on high availability, fault tolerance, and auto-scaling, resulting in an improvement in the reliability and scalability of the applications.
* Utilized AWS CLI to automate backups of ephemeral data stores to S3 buckets, EBS, and create nightly AMIs for mission-critical production servers, improving the data backup and recovery process.
* Developed **Cloud Formation** scripts to automate EC2 instances, reducing the time required to set up new instances.
* Created alarms and trigger points in **Cloudwatch** based on thresholds and monitored logs via metric filters, improving the monitoring and alerting system.
* Created an **AWS RDS MySQL DB** cluster and connected to the database through an Amazon RDS MySQL DB instance, improving the performance and reliability of the database.
* Automated AWS infrastructure using ansible and Jenkins, including software and services configuration using ansible playbooks, improving the efficiency and reliability of infrastructure management.
* Automated backups using shell scripts for Linux and PowerShell scripts for Windows to transfer data to S3 buckets, improving the data backup and recovery process.
* Maintained different versions of application Docker images in the ECR repository using ansible, improving the efficiency and reliability of image management.
* Created and maintained Python deployment scripts for the WebSphere server, improving the speed and reliability of deployments.
* Implemented a CI/CD process using **GIT/SVN, Jenkins, Maven**, and ansible, resulting in an improvement in the speed and reliability of the build and release process.
* Developed Perl and shell scripts for the automation of the build and release process, improving the efficiency and reliability of the process.
* Implemented a continuous delivery pipeline with Docker, Jenkins, and GitHub, resulting in animprovement in the speed and reliability of the delivery process.

**EAIESB Software Solutions Hyderabad,India Jan 2012- April 2015**

**Role: DevOps Engineer**

**Responsibilities:**

* Successfully implemented a CD pipeline involving Jenkins and GIT, completing the automation from commit to deployment, resulting in an improvement in the speed and reliability of the deployment process.
* Installed and configured tools for the continuous integration environment, including Jenkins, Nexus, and Sonar, improving the efficiency and reliability of the CI environment.
* Managed source control systems, including GIT and SVN, improving the efficiency and reliability of the source control process.
* Managed Jenkins and Bamboo as CI servers for different projects, improving the efficiency and reliability of the CI process.
* Coordinated with developers to establish and apply appropriate branching, labeling/naming conventions using GIT and Clear Case source control, improving the organization and reliability of the source control process.
* Built infrastructure for global software development engineering teams, including the implementation of build scripts, continuous integration infrastructure, and deployment tools, resulting in an improvement in the efficiency and reliability of the development process.
* Deployed J2EE applications to application servers in an agile continuous integration environment and automated the whole process, improving the speed and reliability of deployments.

**Royal Bank of Scotland London,UK Sep 2009 - Jan 2012**

**Role: Linux Admin/Engineer**

**Responsibilities:**

* Successfully installed and configured Redhat 4/5/6 using kickstart Server and Solaris 9/10 using Jumpstart, improving the efficiency and reliability of the installation process.
* Performed post-build activities, including setting up backup interfaces, NIC bonding, loading additional packages, and joining servers to the active directory, resulting in an improvement in the reliability of the servers.
* Worked with EMC SAN to acquire storage and set up Veritas/LVM file systems, improving the efficiency and reliability of the storage process.
* Installed, configured, and deployed various Vmware products in a virtual environment, including VMware workstation, VMware converter, VMware view, VCB, and more, improving the efficiency and reliability of the virtual environment.
* Worked with various network protocols, including NTP, NIS, TCP, DNS, DHCP, HTTP, SMTP, SFTP, and FTP, improving the reliability and performance of the network .
* Successfully moved servers from one datacenter to another, improving the efficiency and reliability of the datacenter move process.
* Troubleshooted production server problems related to web applications, Sendmail, disk space, file systems, DNS, and network connectivity, reducing the number of production issues.

**Satyam Computers Hyderabad India May 2005- August 2008**

**Role: Software developer**

**Responsibilities:**

* Developed new modules for UNIX C++ applications, resulting in an increase in efficiency and a reduction in code defects.
* Worked with senior design engineer to implement C++ code using advanced data structures and algorithms, resulting in an increase in processing speed for multi-threaded applications.
* Used SOAP Web services and XML requests to create C++-based multi-threaded applications, resulting in an improvement in communication between systems.
* Utilized STL and sockets to improve the stability and reliability of C++ applications, resulting in a reduction in system downtime.
* Worked with senior design engineer to design and implement C++ code using UNIX and multi-threading techniques, resulting in an improvement in overall system performance.

**Education:**

1. Master’s in Information Science- Wilmington University-2016(**USA**)
2. Master’s in Computer Science-Middlesex University-2009(**UK**)
3. Bachelor’s in Computer Science – Osmania University-2005 (**India**)