**Shiva Kumar**

**(DevOps/Cloud Engineer)**

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**PROFESSIONAL SUMMARY**

* Overall, 3+ years of experience in DevOps ,Cloud and Infrastructure Management ,Site Reliability Engineering.
* Experience in migrating on-premises applications to **AWS ,Microsoft Azure**.
* Well-Versed in using **Jenkins, GitLab**, **GitHub Actions** Continuous deployment tools to setup automated and scheduled deployment.
* Experience with Continuous Integration/Continuous Deployment (CI/CD) pipelines to automate the building, testing, and deployment of Java/Pega applications.
* Proficient in using Build and Automation tools, Artifactory Repository’s like **ANT**, **Maven,** and **npm.**
* Expertise in Branching, Merging, Tagging, and maintaining the versions across the environments using SCM tools like **Bitbucket, TFS, GIT .**
* Experience with **Docker** hub, creating custom Docker container images, tagging, and pushing the images.
* Skilled in **Kubernetes**, EKS, AKS,ECS for scaling ,container orchestration and load balancing with Helm charts.
* Strong Experience in Infrastructure as Code (IaC) tools like **Terraform, CloudFormation** andmonitoring tools like **Nagios, CloudWatch, Prometheus** and **Grafana.**
* Hands on experience in configuration management tools such as **Chef, Puppet, Ansible**.
* Exceptional scripting skills using **PowerShell, YAML, Bash/Shell, Python.**
* Knowledge on test automation tools and frameworkslike **Selenium, Cucumber, TDD,BDD** etc**.**
* Understanding of **Oracle** database infrastructure, including architecture, performance tuning, and high availability configurations
* Proficiency in **MySQL** database management, covering installation, configuration, and optimization for various use cases.
* Expertise in windows and Unix/Linux **System administration**, ensuring their reliability, security.
* Excellent Analytical and Communication skills, Quick Learner, Versatile Team player, Organized, Self-Motivated and can pick up new technologies and solve complex technical problems.
* Experienced with SDLC practices and have a good command on **Agile, Waterfall** Methodology.

**EDUCATION:** Master’s in computer science from University of Central Missouri, USA.

**CERTIFICATIONS**:

* AWS Solution Architect-Associate.
* Azure Fundamentals (AZ-900).
* Agile Software Development.
* Scrum Foundation Professional.
* AWS Fundamentals .
* Continuous Delivery and DevOps .

**TECHNICALSKILLS**

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| --- | --- |
| **Cloud Environments** | Microsoft Azure, Amazon Web Services (AWS). |
| **Version Control Tools** | Git, GitHub, Bitbucket. |
| **CI/CD** | Jenkins, Git Lab, GitHub Actions, ArgoCD, Maven, TFS, ANT. |
| **Container Tools** | Docker, Kubernetes, OpenShift. |
| **Automation Tools** | Ansible, Terraform, Chef. |
| **Monitoring Tools** | CloudWatch, Azure Monitor, Prometheus, Grafana. |
| **Networking/Protocol** | Cisco UCS, TCP/IP, NIS, NFS, DNS, DHCP, WAN, SMTP, LAN, FTP/TFT. |
| **Scripting/Programming** | Python, Java, Groovy, YAML, Bash, Shell, PowerShell, Ruby. |
| **Web Servers** | Apache Tomcat, Nginx, WebSphere. |
| **Database** | Cosmos DB, MySQL, Cassandra, RDS, PostgreSQL. |
| **Tracking Tools** | JIRA, HP Quality Centre (ALM) |

**EXPERIENCE : Capgemini Technologies Pvt Ltd.**

**Client: AXA XL**

**Role: Cloud DevOps Engineer Jan 2019 to Jul 2022**

**Responsibilities:**

* Automated Build and Deployment with Jenkins and GitHub Actions for various environments (Dev, QA, Stage, Production).
* Configured AWS resources such as Amazon S3, Elastic Load Balancing, IAM, and Security Groups in both Public and Private Subnets within VPC.
* Blue-green deployments using Argo CD and Implementing GitOps workflows using Argo CD for continuous delivery.
* Utilized AWS Lambda for event-driven application architectures and AWS API Gateway to manage, secure APIs.
* Ensured AWS cloud security through Security Groups, Network ACLs, Internet Gateways, NAT instances, and Route tables.
* integrated CI/CD processes into Salesforce development workflows, especially focusing on Apex development.
* Managed Kubernetes using Helm charts, enabling reproducible builds and releases of microservice applications.
* Utilized Terraform/Cloud Formation templates for infrastructure-as-code, creating templates for staging and production environments.
* Integrated container management systems to manage the infrastructure and deployment of web applications.
* Wrote Ansible Playbooks to Manage Configurations of AWS Nodes and Test Playbooks on AWS instances.
* Orchestrated the migration of container applications from EC2 to EKS Cluster.
* Implemented IAM solutions for access control, including role-based access control (RBAC).
* Implemented strong authentication mechanisms, such as multi-factor authentication (MFA), to enhance access security.
* Implemented strong authentication and access controls in cloud environments.
* Managed traffic including load balancing, traffic routing, A/B testing, canary releases, and fault injection between microservices using Istio service mesh.
* Set up RDS Read/Write Replicas for PostgreSQL, handling backups and restoration.
* Customized Puppet modules for various applications and services such as Linux configurations, audits, updates, and middleware servers.
* Leveraged message queue services such as SQS (Simple Queue Service) for building scalable and decoupled applications.
* Utilized tools like CloudWatch and Splunk to monitor logs of applications in production and testing.
* Provided 24x7 support for production environments, offering troubleshooting and on-call support.

**Environment**: Jenkins, GitHub Actions, EC2,EKS, S3, CloudFormation, ArgoCD, Bash, MySQL, IAM, SQS, Lambda, Kubernetes, Helm, Terraform, Ansible, Python, Linux, Groovy, Cybersecurity, Prometheus, Service Mesh.

**Client: Zurich NA**

**Role: Azure/DevOps Engineer July 2019 to Jan 2020**

**Responsibilities**:

## Established CI/CD Pipelines in Azure DevOps, managing dependencies and tasks, and automated Maven builds with Azure pipelines.

## Implemented a GIT branching strategy including development, feature, staging, and master branches.

## Designed and configured Azure Virtual Networks (VNets), subnets, network settings, DHCP, DNS, and Security policies.

## Deployed microservices on Azure Kubernetes by containerization and Azure DevOps pipelines .

## Integrated Kubernetes for container orchestration and deployment on AKS and validated mutated requests made to the Kubernetes API using admission controller webhooks.

## Designed, implemented, and managed containerized application platforms including cluster setup, deployment, and automation with Ansible and Terraform.

## Configured Hashicorp Consul ,Vault with terraform to Store Secrets/Passwords while provisioning the infrastructure in the Azure environment.

## Implemented Terraform scripts for Azure Kubernetes cluster management.

## Managed configurations using chef .

## Implemented SonarQube/Scans and Trivy Container Scanning in Azure DevOps pipelines.

## Utilized Bastion Server as a secure gateway for accessing private network resources from a public network and configured private endpoints for Azure services, restricting resource access within the virtual network.

## Installed Prometheus and Grafana using HELM charts in AKS for Kubernetes workload monitoring and visualization.

**Environment:** Azure, Git, AKS, Kubernetes, Ansible, Terraform, HashiCorp, Sonar Cube, Trivy, Python, Grafana.