A close up of a sign

Description automatically generatedNazia Sultana

Cloud DevOps Engineer

# PROFESSIONAL SUMMARY

Innovative Cloud-Certified Senior Software Engineer possesses 7+ years of experience in Information Technology. Comprehensive experience in the areas of designing, developing, Continuous Integration, Continuous Delivery, Continuous Deployment and Continuous Monitoring of enterprise level distributed applications.

* Strong experience in setting up the enterprise infrastructure on Amazon Web Services (AWS) like **EC2 instance, ECS, ELB, EBS, S3 Bucket, Security Groups, Auto Scaling, AMI, RDS, IAM, Terraform,** Cloud formation, CloudFront &**VPC** services.
* Expertise in automating the builds and releases of Java, .NET and AngularJS applications using VSTS/Azure DevOps Services.
* Experience in Designing **AZUREResource Manager** (ARM) templates and extensive experience in designing custom build steps using PowerShell.
* Expertise in Azure Development and worked on Azure web application, **App services, Azure storage, Azure SQL Database, Azure Virtual Machines, Azure AD, Azure DNS, Azure VPN Gateway,** and Notification hub.
* Experience in Azure **IaaS, PaaS**, Provisioning VM’s, Virtual hard disks, Virtual Networks, Deploying Web Apps and creating web-jobs, Azure Cosmos DB, Active Directory, Azure Windows server, Microsoft SQL Server, Microsoft Visual Studio, Windows PowerShell, Cloud infrastructure.
* Experience in Azure, **Kubernetes**& writing the scripts in Perl and Shell Scripts for managing various enterprise applications.
* Worked on provisioning the **Kubernetes** clusters in **AKS** and managed the clusters and nodes using kubectl and as command line utilities.
* Virtualized the servers using Docker for the test environments and dev-environments needs and configuringautomation using Docker containers.
* Highly experienced in **Unix/Linux** system engineering, server builds, server patching, installations, upgrades, migrations and troubleshooting on **REDHAT Linux, CentOS, Ubuntu, Windows, Fedora, and Solaris**
* Experience on technologies and platforms including JAVA, Node.js, Jenkins, Subversion, Git, Unix/Linux, Windows servers, **VMWare, Docker, Vagrant, Ansible, Chef, AWS**, across Financial and Healthcare sectors.
* Provisioning Web Servers in AWS using different services **EC2, VPC, ELB, Auto Scaling, Route53** using Cloud formation templates, **Terraform & AMI’s** using Infrastructure as a Service (**IAAS**).
* Architected and implemented automated Cloud Infrastructure using Chef and Puppet on multi platforms on AWS Cloud Servers.
* Experience in working with configuration management tools like **Chef and Ansible.**Implemented Continuous Delivery framework using ChefJenkins, and Maven in Linux environment on AWS Public cloud.
* Proficient in using Build Automation tools like ANT, **Maven**, Gradle and working knowledge on other build tools like make file.
* Written Chef Cookbooks, recipes and pushed them onto Chef server for configuring EC2 Instances.
* Performed automation tasks on various **Docker components like Docker Hub, Docker Engine, Docker Machine, Compose and Docker Registry**.
* Dockerized applications by creating Docker images from **Docker file**
* Implemented Continuous Integration and Deployment using various CI Tools like **Jenkins, Bamboo**.
* Extensively worked on Hudson, Jenkins, TeamCity and Bamboo for continuous integration and for End to End automation for all build and deployments.
* Experience in administering, deploying and managing **RedHat, Ubuntu and CentOS** servers.
* Proficient in **Python**, Perl Scripting, Shell Scripting, SQL, build utilities like open make, ANT and Cruise Control.
* Hands on experience in branching, tagging and maintaining the version across the environments using SCM tools like **GitHub**, Subversion (SVN) and TFS on Linux and windows platforms.
* Good knowledge and hands on Experience in some monitoring tools like **Splunk, Nagios**, etc.
* Automated setting up server infrastructure for the **DevOps** services, using **Ansible, shell and python scripts**.
* Integrated Jenkins with various DevOps tools such as Git, **Nexus**, Ansible
* Extensively worked on Artifactory and **Nexus Repository** Managers to deploy software built through Jenkins Build Jobs.
* Configuring with Nginx and **Ansible** Web servers.
* Thorough experience in implementing Automation tools Selenium WebDriver, JUnit, TestNG, Eclipse, Git/GitHub, Jenkins, SOAP UI and REST with POSTMAN.
* DevOps practice for Micro Service and **docker** based cluster using **Kubernetes** and spinnaker as Orchestrator on application development for cloud platforms using like Spring boot, Microservices.
* Working on Kubernetes cluster nodes, configmaps and creating pods for microservices.
* Configured Node Js express applications in production and pre-production environment

# TECHNICAL SKILLS

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| --- | --- |
| Cloud Environments | AWS, Azure. |
| Operating Systems | Red Hat Linux, CentOS 6 & 7, Ubuntu12.x, 13.x, 14.x, Windows 98, Vista,  Windows Server 2003, 2008, 2012, VMware ESX and Mac OS. |
| Web/ Application Servers | Apache Tomcat, JBoss 5.x/6.x/7.x, WebSphere Administration, IIS and Nginix. |
| Databases | MySQL, Oracle, Mongo DB, RDS. |
| Version Control Tools | Subversion, GIT, GITHUB, SVN, Atlassian |
| Configuration Management | Ansible, Chef, Terraform. |
| CI/CD Tools | Jenkins, Team City, Maven, Octopus, SonarQube. |
| Container Tools | Kubernetes, Docker. |
| Monitoring Tools | Splunk, AWS cloud watch, Nagios,ELK. |
| Scripting Languages | Yaml, Python, groovy, bash, Power shell, Shell scripting, Json, Java script, .Net |
| Bug Tracking & Testing tools | JIRA, JUnit, NUnit |
| Networking Infrastructure | TCP/IP, DNS, DHCP, LDAP, SAN. |
| Programming Languages | Java, Python, C, C#, R |

# CERTIFICATIONS/LICENSES

* Amazon Web Services Certified: Solutions Architect Associate
* Microsoft Certified: Azure Fundamentals
* Splunk 7 .x Fundamentals core user
* Confluent Fundamentals for Apache Kafka

# PROFESSIONAL EXPERIENCE

**Cloud DevOps Engineer – Janus Henderson Investors Oct 2019 to Present**

**Denver, CO**

**Roles & Responsibilities:**

* Developed Cloud Infrastructure management and Implementation Working experience on Aws and **Azure**.
* Setup and provisioned AWS **Auto-Scaling** in launching EC2 instances, IAM, Elastic Load Balancer, S3, Glacier, Cloud Front, RDS, VPC, Route53, Cloud Watch, SNS, EBS infrastructure as code using Terraform.
* Defining and configuring **CloudWatch** alarms and triggers to implement auto scaling policies. Used AWS CLI for EC2 creations and S3 uploads and authenticated downloads.
* Experience in installation, configuration, tuning, security, **backup**, **recovery** and upgrades of Linux.
* Experienced in Provisioning of IAAS & PAAS **Virtual Machines** and Web\Worker roles on AWS. Manage the
* Created PowerShell scripts for IIS website creation into various Environments. Written PowerShell script for automating the post release merges i.e., from the release branch to the master branch.
* Responsible of standards-based **web application** deployments over Azure Cloud services (web and worker roles) on Azure, using VS and PowerShell script. using well-established design patterns and the power of ASP.NET and the .NET Framework. Automated few processes using **shell scripting.**
* Good understanding in Azure networking, Storage, VMs, NSG, Automation, Monitoring AZ Copy, AD, Application Insights and Azure Roles.
* Azure services that support building and running applications at scale, including Azure **Kubernetes** Service (AKS), App Service, Batch, Service Fabric, and others.
* Written terraform code in order to attach the web servers and media servers to the target group of **Application Load balancer** and configured the DNS record for the load balancer.
* Integrated the Git and Terraform in order to deploy the infrastructure in the Cloud environment written as terraform templates.
* Experienced in Continuous Integration/Deployment with Azure Pipelines. Deployed the application in various environments like DEV, STAG, PERF, PROD using Octopus Deploy for various release versions.
* Responsible for Continuous Integration (CI) and Continuous Delivery (CD) process implementation using Jenkins along with Python and Shell scripts to automate routine jobs.
* Designing, building, and supporting advanced cloud automation workflows and tools used to support **automated CI/CD** pipeline application deployments into AWS using Jenkins, Artifactory, and Terraform.
* Good Knowledge in scripting languages like Unix Shell, groovy, Python to automate the deployments.
* Automated most of the daily tasks using **Python scripts**. Developed Wrapper in Python for instantiating multi-threaded application.
* Used Azure functions (Faas) to manage the servers and run the code in the Azure.
* Deployed microservices based application using **AKS**.
* Created a dynamic horizontal scaling cluster management platform using Kubernetes to deploy Dockerized micro service containers. Worked on Deployment Automation of all micro services to pull image from Private ACR registry and deploy to **KubernetesKops** Cluster.
* Assist in DB migration and upgrade of Octopus Deploy and Tentacles. Using Ansible, and Octopus to create automatic scripts to deploy various repositories, also using manual methods like command line interfaces such as Git Bash to manually deploy code as well.
* Expertise on Creating Multiple **Ansible playbooks** for auto-provisioning of test environments using Docker and auto deployment of artifacts.
* Worked on installation and configuration of **Kafka**.
* Automated few processes using shell scripting.
* Expertise on Creating Multiple Ansible playbooks for auto-provisioning of test environments using Docker and auto deployment of artifacts.
* Configured **Node Js** express applications in production and pre-production environment by Configuring with Nginx and Ansible Web servers
* Setup the VPN tunnel from on prem network to the cloud account in order to enable the communication back and forth.
* Involved in scrum meetings, product backlog and other **scrum** activities and artifacts in collaboration with the team.
* Proficient in documentation works, Requirement Specification (RS) and Test Case Preparation.

**Environments:** Azure, Aws, Kubernetes, Docker, Terraform, Ansible, Python, AKS, ACR, Kafka, Jenkins, Jira, Groovy, PowerShell, Node Js, Apache Tomcat, Shell Script, Windows, Linux, Nginx, Alert logic, udeploy, Splunk.

**DevOps Engineer- SDS India Pvt Ltd. Aug 2015 to Dec 2018**

**Hyderabad**

**Roles & Responsibilities:**

* Written Templates for Azure Infrastructure as code (IAC) using Terraform to build staging environments.
* Integrated Azure Log Analytics with **Azure VMs** for monitoring the log files, store them and track metrics and used Terraform as a tool, Managed different infrastructure resources Cloud, VMware, and **Docker containers**.
* Configure Continuous Integration from source control, setting up build definition within Visual Studio Team Services (VSTS) and configure continuous delivery to automate the deployment of ASP.NET MVC applications to Azure web apps and managed **Azure Active Directory**, Office 365 and applied upgrades on a regular basis.
* Manage different AZURE environment for provisioning of Linux servers and services executed by the providers.
* Worked on Azure Web Apps for hosting many Web Applications, **RESTful APIs**, and mobile backends developed in .NET which can run and scale in various Windows Environments and Linux Environments.
* Created a **Virtual Network** on Windows Azure to connect several on-premises servers.
* Automated AWS infrastructure using **Chef, Docker, and Jenkins** and managed software
* Worked on administrating GIT server and Continuous Integration system like Jenkins and handled issues from onshore and offshore developers.
* Extensive involvement in **Designing Azure Resource Manager** Template and in designing custom build steps using PowerShell.
* Designed Architectural Diagrams for different applications before migrating into **Amazon cloud** for flexible, cost- effective, reliable, scalable, high-performance and secured.
* Build servers using AWS: Importing volumes, launching EC2, creating security groups, auto-scaling, load balancers, Route 53, SES and SNS in the defined virtual private connection.
* Creating alarms in Cloud Watch service for monitoring the server’s performance, **CPU Utilization**, disk usage etc.
* Defined AWS Security Groups which acted as virtual firewalls that controlled the traffic allowed to reach one or more AWS EC2 instances.
* Deploying EC2 instances, ELBs by using Cloud Formation in AWS.
* Managing S3 buckets and bucket policies.
* Experienced in **OpenShift** and Rancher platform in managing **Docker Containers**, Kubernetes Clusters and implemented load balanced, highly available, fault-tolerant Kubernetes infrastructure and created Jenkins jobs to deploy applications to **Kubernetes Cluster**.
* Configured applications that run multi-container Docker applications by utilizing the **Docker-Compose** tool which uses a file configured in **YAML** format. Used Kubernetes to manage containerized applications using its nodes, Config-Maps, selector, Services and deployed application containers as Pods.
* Configured and maintained Jenkins to implement the **CI/CD** process and integrated tool with **GIT, Maven, Nexus repository, Docker, Nagios and Jira** for end to end automation
* Containerized servers using the Docker for the test environments and development environment
* Worked in Ansible for a **Configuration Management** (CM) to automate daily tasks
* Expert in managing and maintaining development, test, and production systems. Troubleshooting issues by viewing logs monitoring.  Also, applying periodic updates, patchesto servers.
* Setup Jenkins jobs for **Continuous integration** process and to execute test cases.
* Developing a **Continuous Delivery (CD)** pipeline with Jenkins by writing groovy scripts
* Designed and developed Cloud Service projects and deployed to Web Apps, PaaS, and IaaS.
* Configured **SQL Server Master Data Services** (MDS) in Windows Azure IaaS.
* Experienced in Continuous Integration/Deployment with **Azure Pipelines**. Deployed the application in various environments like DEV, STAG, PERF, PROD using Octopus Deploy for various release versions.
* Assist in DB migration and upgrade of Octopus Deploy and Tentacles. Using **Ansible,** and Octopus to create automatic scripts to deploy various repositories, also using manual methods like command line interfaces such as Git Bash to manually deploy code as well.
* Worked on build tools like **Maven, Ant for building jar, war and ear** files.
* Worked on Jira ticketing tool to prioritize and follow sprints and Kanban board.
* Worked with development, testing, systems infrastructure, and project teams to ensure continuous operation of dev and test systems.

**Environments:**  Azure, AWS,Splunk, ELK (Elasticsearch, Logstash and Kibana), Kubernetes, Docker, Octopus, AWS, Jenkins, MongoDB, Ansible, Jira, GIT

**DevOps Engineer – Sinitron Apr 2014 – July 2015**

**Hyderabad, IN**

* Maintained and Administered GITHUB Source Code Tool.
* Updated Release reports from change management control.
* Created **Branches, Labels** and performed Merges in Stash and GITHUB.
* Developed Processes, Tools, Automation for Jenkins based Software for **Build system** and delivering SW Builds.
* Managed Build results in **Jenkins** and Deployed using workflows.
* Delivered specific versions of various components of an application into target environments.
* Maintain and track inventory using Jenkins and set alerts when the servers are full and need attention.
* Modeled the structure for Multi-tiered applications orchestrate the processes to Deploy each tier.
* Developed build and Deployment Scripts using **ANT and MAVEN** as build tools in Jenkins to move from one environment to other environments.
* Have used Confluence to create, share and discuss content and projects.
* Familiar and experienced with **Agile Scrum** development.
* Proposed and implemented branching strategy suitable for Agile development in Subversion.
* Created Branchesand performed Merges in Source Tree& Stash.
* Installed and Configured **Jenkins** for Automating Deployments and providing an automation solution.
* Integrated **GITHUB** into Jenkins to automate the code check-out process.
* Used Jenkins for Automating Builds and Automating Deployments.
* Very strong Project Management experience performing ITIL RM /SCM activities.

**Environment**: Jenkins, GIT, ANT, MAVEN, JIRA, Python, BASH & KORN Shell, JAVA/J2EE, WebSphere

**Linux Engineer - Sinitron Jan 2013 to Mar 2014**

**Hyderabad**

**Roles & Responsibilities:**

* Worked in infrastructure team on installation, configuration and administration of RHEL 5.x/6.x/7 & CentOS 5.x/6. x.
* Maintained RHEL 6.6/7.2 operating system computers used as web, file, and database servers in the Pre- Production and Production environments.
* Involved in installation, configuration and administration of RHEL 5x/6.x Servers.
* Experienced in configuration maintaining RedHat Cluster, NetBackup, Veritas volume manager and Veritas file system. Experienced in Virtualization Products KVM, XEN
* Configured and Administered Apache, VSFTPD services, MYSQL and Tomcat.
* Responsible for Apache/Tomcat Servers in a Load-Balancing Configuration on RedHat Enterprise Linux 4
* Setup Apache Tomcat as a high-availability application serving platform.
* Responsible for patching using RedHat Satellite and upgrading RHEL servers from 5.x to 5.11 and 6.x to 6.5
* Experience in RHEL Clustering, configuration and File System maintenance.
* Rapid provision & configuration management for RHEL using Puppet
* Configuring and administering NFS, DNS, CIFS, FTP, SFTP
* Worked on popular applications/**middleware** that can execute within the RHEL Linux environment (e.g Oracle, MQ series, Websphere, etc)
* Knowledge and experience in RHEL Linux High-Performance computing including parallel environments, and batch schedulers.
* RHEL installation and modifications, account creation and maintenance, environment configuration, OS patches, etc.
* Experienced with physical and virtualized RHEL Linux systems.
* Monitoring RHEL 7/centos servers with command line monitoring tools such as top, htop, lsof, iostat, iotop, tcpdump, sysstat (SAR), **Splunk** and **Nagios**.
* Maintained all system backup and assisted to restore all procedures and provided required training to all users.
* Developed an infrastructure to provide support to all business requirements and perform regular troubleshoot on system to resolve all issues.
* Monitored everyday systems and evaluated availability of all server resources and performed all activities for Linux servers.
* Assisted to configure and deploy all virtual machines and installed and provided backup to all **configuration** procedures.
* Perform tests on all new software and maintain **patches** for management services and perform audit on all security processes.

# EDUCATION

**Valparaiso University, Valparaiso, IN**

Master of Science: Information Technology

Minor: Computing, Cumulative GPA 3.97/4

Honor: Dean’s list 3 out of 3 semesters.