Milind Sr. DevOps Engineer

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**PROFESSIONAL SUMMARY:**

* Over 9+ years of extensive IT experience in the software development life cycle (SDLC), including requirements gathering, design, coding, unit testing, quality assurance, and code deployment.
* Highly motivated and dedicated DevOps Engineer with expertise in automating, configuring, and deploying instances on AWS and GCP cloud environments.
* Proficient in various SDLC methodologies, including Waterfall, Agile/Scrum, and Continuous Integration (CI) and Continuous Deployment (CD) practices.
* Successfully designed and configured virtual data centers in AWS for Enterprise Data Warehouse hosting, utilizing Virtual Private Cloud (VPC), Public and Private Subnets, Security Groups, Route Tables, and Elastic Load Balancer.
* Extensive experience in creating and maintaining highly available, scalable, secure, monitored, and alerting network infrastructures on AWS and Azure platforms.
* Hands-on experience in Azure cloud services, Azure storage, and Azure Active Directory, including the management of Azure AD tenants and application integration.
* Developed a high-performance compute environment on Azure for a client's congressional redistricting Azure application.
* Strong skills in building Fault-Tolerant and High Availability applications on AWS, with expertise in implementing Auto Scaling behind Elastic and Application Load Balancers.
* Proficient in providing durable and available data through the creation and management of policies for S3 data storage, versioning, and life cycle policies.
* Experience in managing Amazon Redshift clusters, including cluster launches and node type specifications.
* Hands-on expertise in setting up AWS infrastructure with resources such as VPC, EC2, RDB, S3, IAM, EBS, Security Groups, Auto Scaling, SES, SNS, and RDS using Cloud Formation JSON templates.
* Proficient in administering Continuous Integration (CI) tools like Jenkins and Bamboo.
* Experience in implementing the Docker for wrapping up the final code and setting up development and testing environment using Docker Hub, Docker Swarm and Docker Container Network.
* Worked on infrastructure with Docker containerization. Worked on maintaining, OpenShift Docker Images and containers.
* Working with the ELK (Elastic Search, Logstash, Kibana) stack to analyze log data obtained from Microsoft Business Intelligence tools.
* Experience in developing CI/CD system with Jenkins on Kubernetes container environment, utilizing Kubernetes and Docker for the runtime environment for the CI/CD system to build, test and deploy.
* Created and managed clusters in the Google Cloud environment using Kubernetes (k8s), with Jenkins employed for code deployment and automation of build and deployments.
* Experienced in configuring Jenkins Master and multiple slaves to support the Continuous Development and Deployment process.
* Deployed AWS EC2 instances with various operating systems in both Linux and Windows environments.
* Strong command of SQL scripting and the execution of scripts for various environments.
* Developed, maintained, and updated various scripts for services in UNIX-based environments, including start, stop, restart, recycle, and Cron jobs, using Korn shell and Bash.
* Hands-on experience with deployment automation tools, including Ansible and Chef, for continuous deployment in Dev, Integration, and Pre-Production environments.
* Designed and deployed Kubernetes clusters for production container orchestration with multi-AZ and self-healing capabilities, utilizing Terraform for one-click deployment and Ansible Playbooks for maintenance.

# TECHNICAL SKILLS:

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| **Cloud Infrastructure** | AWS, GCP & Azure |
| **CI/CD Tools** | Jenkins, Bamboo, ANT, MAVEN, Terraform, Docker, Kubernetes,  Puppet, Chef, Ansible |
| **Versioning Tools** | GIT, Subversion (SVN), GITHUB, GITLAB, Bitbucket |
| **Bug Tracking Tools** | JIRA, Remedy, IBM Clear Quest, Bugzilla |
| **Container Orchestration**  **tools** | Docker, Kubernetes |
| **Scripting** | Shell, Python, JavaScript, YAML, JSON, Groovy |
| **Virtualization Tools** | Vagrant, VMware vSphere, Oracle VirtualBox, VMware Workstation |
| **Web/App server** | Web Logic Application Server 9.x, 10.x, WebSphere 6.x/7.x/8.x, Apache Tomcat 5.x/7.x, AWS, JBOSS 4.22.GA |
| **Database** | DynamoDB, MongoDB, Oracle, SQL Server, MySQL |
| **Operating System** | OS X, Mac IOS, Windows, Solaris, RHEL, Centos, Ubuntu, SUSE |
| **Network Topologies** | LAN, WAN, VPN and Firewalls |
| **Logging &Monitoring Tools** | Nagios, Splunk, AppDynamics, ELK Stack |

**WORK EXPERIENCE:**

**Client: Fifth Third Bank - Evansville, IN Oct 2022 - Present Role: Azure DevOps Engineer**

**Responsibilities:**

* Implemented CI/CD pipelines using Azure DevOps to automate application build, test, and deployment processes.
* Developed and managed infrastructure code with ARM templates and terraform, ensuring efficient provisioning and maintenance of cloud resources.
* Oversaw version control systems within Azure DevOps to facilitate code collaboration, branching, and merging strategies.
* Orchestrated the release process, coordinating with teams for successful and timely deployments to production.
* Experience in Azure cloud services (PaaS & IaaS), Azure Web apps, Function Apps, Azure Data Factory & Storage, Azure Resource Manager (ARM), Azure Identity & Access Management, Active Directory, Azure SQL/Cosmos DB, Azure Multi-Factor Authentications, Load Balancing, and Application Gateways.
* Set up monitoring solutions, including Azure Monitor and other tools, to track application performance and system health, promptly responding to incidents.
* Applied security best practices to safeguard Azure resources and ensure compliance with industry standards and organizational policies.
* Developed automation workflows and scripts to streamline repetitive tasks, enhancing operational efficiency.
* Utilized Azure services, including Azure App Service, Azure Functions, Azure Storage, and Azure SQL Database, to support application development and deployment.
* Investigated and resolved application and infrastructure-related issues, conducted root cause analysis, and implemented preventive measures.
* Collaborated with cross-functional teams, fostering effective communication and teamwork among developers, testers, and operations.
* Orchestrating the release process, coordinating with teams to ensure successful and timely deployments to production.
* Worked within Agile/Scrum environments, actively participating in sprint planning, backlog grooming, and sprint reviews.

**Environment**: Azure (IAAS, PAAS), Windows server, SQL server, VSTS, Windows PowerShell, Azure Storage, Docker, Ruby, Bash, Chef, Jenkins, Maven, Puppet, Bash, NT command shell, ANT, Gradle, GitHub.

# Client: Comcast - Philadelphia, PA Mar 2021 – Sept 2022 Role: Azure DevOps Infrastructure Engineer

**Responsibilities:**

* Provided recommendations for duplicating a subset of on-premises machines to Azure Infrastructure as a Service (IAAS) for disaster recovery, including data synchronization with SQL Server and SharePoint instances on VMs.
* Worked on Azure Site Recovery and Azure Backup, deploying instances in Azure environments and data centers, and migrating to Azure using Azure Site Recovery. Collected data from Azure Resources using Log Analytics for issue resolution.
* Configured serverless services, created and configured HTTP Triggers in Azure Functions with application insights for monitoring. Performed load testing using Visual Studio Team Services (VSTS) or Azure DevOps Services.
* Created Azure Automation Assets and PowerShell runbooks for automation. Deployed Azure AD Connect, configured Active Directory Federation Service (AD FS) authentication flow, and involved in administrative tasks related to Azure environment.
* Configured Continuous Integration from source control, set up build definitions within Visual Studio Team Services (VSTS), and configured continuous delivery for ASP.NET MVC applications to Azure web apps.
* Implemented a CI/CD pipeline with Docker, Jenkins, Team Foundation Server (TFS), GitHub, and Azure Container Service. Jenkins built Docker containers automatically when new TFS/GitHub branches were initiated.
* Used Terraform Templates to automate Azure IaaS virtual machines and deployed virtual machine scale sets in production environments.
* Managed various Azure infrastructure components, including Azure Web Roles, Worker Roles, VM Roles, Azure SQL, Azure Storage, Azure AD Licenses, and Virtual Machine Backup and Recovery using Azure PowerShell and Azure Portal.
* Developed Azure Infrastructure as code using Terraform and integrated Azure Log Analytics with Azure VMs for monitoring and metrics tracking.
* Worked with OpenShift for container orchestration with Kubernetes container storage and automation to enhance container platform multi-tenancy.
* Deployed Windows Kubernetes (K8s) clusters with Azure Container Service (ACS) and utilized Kubernetes and Docker for the runtime environment of the CI/CD system.
* Utilized Ansible to create playbooks for machine creations and SQL server and my SQL installations.
* Set up and managed ELK stack (Elasticsearch, Logstash, Kibana) using Ansible and resolved build issues with ELK.
* Wrote Ansible handlers with multiple tasks to trigger multiple handlers and manage Kubernetes charts using Helm.
* Implemented Docker -maven-plugin in Maven pom.xml files to build Docker images for microservices.
* Designed, wrote, and maintained Python scripts for administering GIT and used Jenkins for continuous delivery.
* Integrated Jenkins with Jira and GitHub, using Jira as the defect tracking system, and configured various workflows, customizations, and plugins for Jira.
* Built and managed a highly available monitoring infrastructure using Nagios to monitor application servers like JBoss and Apache Tomcat.

**Environment**: Azure, Terraform, Maven, Jenkins, Ansible, Azure ARM, Azure AD, Azure Site Recovery, Kubernetes, Python, PowerShell, Nexus, JFrog Artifactory, Jenkins, Git, Jira, GitHub, Docker, Windows Server, TFS, VSTS, LDAP, Nagios.

# Client: THE EXCHANGE - Dallas, TX Aug 2019 – Feb 2021 Role: DevOps Engineer

**Responsibilities:**

* Designed, planned, and executed the migration of existing on-premise applications to the Azure Cloud (ARM). Configured and deployed Azure Automation Scripts, utilizing Azure stack Services and Utilities for automation.
* Implemented storage blobs and Azure files, including the creation and configuration of Storage accounts, Content Delivery Network (CDN), custom domain setup, and access management with storage access keys.
* Extensive experience with Windows Azure Services, including PaaS, IaaS, and storages such as Blob and SQL Azure.
* Deployment and configuration management, as well as Virtualization.
* Supported and maintained Software Release Management procedures, working with Subversion and proposing effective branching strategies.
* Utilized Docker to set up Azure Container Registry with Docker and Docker-compose, actively participating in deployments using Kubernetes on Docker.
* Developed CI/CD Pipelines within Azure DevOps environments, managing dependencies and tasks effectively. Automated Maven builds with Jenkins.
* Leveraged Azure Kubernetes Service (AKS) to deploy managed Kubernetes clusters in Azure, using Resource Manager templates and terraform.
* Configured servers for hosting Team Foundation Server (TFS) instances, facilitating Continuous Integration (CI) through Team Foundation (TF) Build Service.
* Administered and monitored Visual Studio Team System (VSTS), ensuring smooth migration between versions and maintaining backups and collections.
* Employed Maven pom.xml to define dependencies and plugins for various activities, integrating Maven with GIT for project management and deployment.
* Automated infrastructure activities using Ansible playbooks and integrated Ansible with Jenkins in the Azure environment.
* Implemented fully automated Server build management, monitoring, and deployment using CHEF and Ansible.
* Developed Python scripts for automation and testing of Java applications across Linux servers.
* Designed and implemented best SCM processes and procedures using GitHub, GIT, and analyzed and resolved source code conflicts with ClearCase.
* Utilized Apache Kafka to import real-time network log data into HDFS, improving data processing capabilities.
* Implemented Master-Slave architecture to enhance Jenkins' performance and utilized Jenkins for Continuous Integration and deployment into TomCat Application Server.
* Designed strategies for increased development and release velocity through Continuous Integration, delivery, and deployment using Bamboo and Jenkins.
* Proficient in SCM tools like GIT, Subversion (SVN), and TFS on Linux platforms for version control management.
* Proficient in JIRA for issue tracking and project management.
* Experience in installing and configuring the NEXUS Repository manager for artifact sharing and developing tools for integration, automated testing, and release management.
* Involved in researching project application architecture to support and resolve build, compile, and test issues and problems.

**Environment**: ANT, MAVEN, Subversion (SVN), CHEF, Docker, Vagrant, EC2, Ansible, JIRA, LINUX, RHEL, SNS, SQS, Kubernetes, Shell/Perl Scripts, Bitbucket, Python, TFS, SCM, API, GIT, Jenkins, Tomcat, Java, Azure TFS, Azure VSTS, Visual Studio, Visual Studio Code, Git, Bash, Python.

# Client: DTCC - Coppell, TX Jan 2018 – July 2019

**Role: DevOps Engineer**

**Responsibilities:**

* Developed and enhanced PACS (Planning Assignment & Configuration Sub-systems) using Developer.
* Managed compliance for safety and incident reporting procedures.
* Created Terraform templates for custom-sized VPC and NAT SUBNETS for deploying web applications and database templates.
* Wrote custom support modules for upgrade implementation using PL/SQL and shell scripts.
* Conducted unit testing and system testing in both Linux and Windows environments.
* Contributed to the CI/CD process, utilizing GIT, Nexus, Jenkins job creation, Maven builds, Docker image creation, and deployment in Google Cloud clusters.
* Worked with cloud formation templates to create EC2 instances, ECS containers, S3 for object storage, VPC for private and public subnets, and IAM roles for secure AWS resource access.
* Wrote and debugged basic shell scripts for various Linux servers.
* Implemented horizontal auto-scaling using OpenStack components - Heat, Ceilometer, and automated local user provisioning in OpenStack instances through Ansible Playbooks.
* Documented technological issues and resolutions in the knowledge base.
* Containerized applications and their dependencies using Docker and Docker-Compose files.
* Provided analytical reports to the project manager using advanced Excel features.

**Environment**: AWS EC2, S3, RDS, EBS, ELB, Docker, Kubernetes, PACS, VPC, SQL, GIT.

# NatWest Group – India Jan 2015 – June 2017

**Role: DevOps/ Build and Release Engineer**

**Responsibilities:**

* DevOps migration and automation processes for build and deploy systems.
* Developed processes, tools, and automation for Jenkins-based software build and delivery.
* Utilized MAVEN as a build tool for Java projects to create build artifacts like WAR or EAR files from source code.
* Proposed and implemented a branching strategy suitable for agile development in Subversion.
* Created branches and performed merges using SourceTree and Stash.
* Installed and configured Jenkins for automating deployments and providing automation solutions.
* Integrated GIT into Jenkins to automate code check-out.
* Replaced manual deployment and management processes with Chef and AWS CloudFormation across four product platforms.
* Wrote Chef Recipes to automate build/deployment processes and enhance overall efficiency.
* Created Puppet manifest files to install Tomcat instances and manage configuration files for multiple applications.
* Developed shell scripts to apply integration labels to files that required manual labeling.
* Established a process for automated DEV, QA, and production deployments with Ansible and Jenkins.
* Performed Jenkins administration, updated plugins, set up new projects, and debugged build issues.
* Deployed microservices-based multi-tiered applications to Kubernetes on various public and private clouds.
* Managed Kubernetes production environments via kops scripts.
* Developed unit and functional tests in Python and Ruby.
* Worked with GIT cloning to create GIT repositories.
* Developed build and deployment scripts using ANT and MAVEN as build tools in Jenkins for moving applications across different environments.
* Utilized Nexus to manage Maven repositories and share snapshots and releases of internal projects.
* Employed Ansible playbooks to configure systems to a specified state.
* Wrote shell scripts to check server security settings and make necessary changes.
* Coordinated with Development, Database Administration, QA, and IT Operations teams to prevent resource conflicts.
* Utilized ANT, Puppet/Chef scripts with Ivy for application building and deployment.
* Reduced department costs and eliminated unnecessary resources by automating cloud infrastructure provisioning with Chef.
* Deployed artifacts into WebLogic/WebSphere servers and automated web server provisioning using Chef. Wrote Chef manifests to preserve system states for maintenance.

**Environment**: Subversion (SVN), GIT, Puppet, Chef, Jenkins, Ant, MAVEN, JBOSS, Shell Scripts, Nexus, Jira, Apache Tomcat, UNIX/Linux, Web services, SQL server, NOSQL.

# Saama – Pune, India

**Role: Linux System Administrator May 2013 – Dec 2014**

**Responsibilities:**

* Installed, maintained, administered, and troubleshot Red Hat Enterprise Linux 5 servers on various hardware platforms.
* Provided support for Linux servers in production, development, and testing environments.
* Installed, configured, and maintained DHCP, DNS, NFS, NIS, and Send mail servers.
* Managed user accounts and groups, configured dumb terminals, added modems, formatted and partitioned disks, handled swap, managed local and remote printers, and managed backups, as well as scheduled jobs.
* Conducted performance tuning and preventive maintenance, including daily backups.
* Added swap space at runtime and installed and configured LDAP.
* Resolved TCP/IP network access problems for clients.
* Implemented remote system monitoring with Sun Microsystems.
* Performed administrative tasks such as system startup/shutdown, backups, printing,

documentation, user management, security, and network management. Configured dumb terminals.

* Troubleshot backup and restore problems and provided day-to-day support to end-users on Solaris and Linux-based servers.
* Developed, maintained, and updated various scripts for services (start, stop, restart, recycle, cron jobs) using UNIX-based shell and Perl.
* Configured and maintained NIS and NFS servers on Linux.

**Environment**: RHEL, CentOS, Ubuntu, DNS, HTTPD, Nginx, Firewall, NIC’s, LVM, Patching, VMWare, Veritas.