FREDERICKS ODUGHU

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# Professional Summary

* A highly skilled and experienced DevOps engineer with 9+ years of experience in designing, implementing, and maintaining cloud-based infrastructure and automation.
* Extensive experience includes SCM, DevOps Build/Release Management, Change/Incident Management and Cloud Management.
* Experience in architecting, developing, and maintaining automation to configure, deploy and operate IDP in development, integration, and production environments.
* Experience on Amazon EC2, S3, Simple DB, RDS, Load Balancing, SQS, and other services in the AWS cloud infrastructure such as IAAS, PAAS and SAAS.
* Extensive experience with Kubernetes, Docker, Jenkins, Team City.
* Experience working with JIRA management tool, and confluence pages development.
* Proficient in an assortment of technologies including Linux/Unix, Virtualization (KVM, VMware Esxi), OpenStack Cloud, Web Servers, Python, Ansible, Shell Scripting and Programming.
* Experience with various Application Performance Monitoring tools such as Dynatrace, AppDynamics, Grafana, Prometheus to track metrics of Java and Python applications.
* Full stack development experience on Angular JS, Node JS and Express framework.
* Experience in Configuration Management, Change/Release/Build Management, Support and Maintenance under Unix/Linux Platforms (REDHAT and CENTOS).
* Hands on experience in writing lightweight Node.js express server, and using technologies like Ajax, JavaScript/jQuery, JSON to make connections between server and databases like MongoDB and MySQL.
* Experience implementing Object Oriented Python, Hash Tables (Dictionaries) and Multithreading, Django, MYSQL.
* Deployed and configured Chef Server and Chef Solo including bootstrapping of chef client nodes for provisioning; Created roles, cookbooks, recipes, and data bags for server configuration, deployment, and app stack build outs.
* Hands-on experience in installing, configuring of Puppet server-clients, and wrote Puppet Manifests to automate infrastructure.
* Developed Ansible Playbooks to provision Apache Web servers, Tomcat servers, and other applications. Experience writing Ruby, Python, Shell (Bash), Perl and Batch/PowerShell scripts to automate the deployments.
* Virtualized the servers using the Docker for the test environments and dev-environments using Docker containers.
* Expertise in DevOps, Release Engineering, Configuration Management, Cloud Infrastructure Automation, it includes Amazon Web Services (AWS), Ant, Maven, Jenkins, Chef, SVN, and GitHub.
* Implemented Team Foundation Server TFS as Version Management for Microsoft Technologies.

# Technical Skills

* **Framework/DevOps tools:** Maven, JIRA, SonarQube, Nexus, Jenkins, Terraform, Slack, GitHub, Tomcat
* **Containers Tools:** Docker, Kubernetes
* **Build Tools:** Ant, Maven, Go
* **Cloud platforms**: AWS, Azure DevOps, GCP
* **AWS Services:** VPC, Lambda, EKS, API Gateway, Step functions, etc.
* **SCM:** Git, GitHub, Bitbucket
* **Scripting & Other Tools:** Unix Shell Scripts (Bash) Python, HCL, YAML
* **AWS Services:** VPC, Lambda, EKS, LB, API Gateway, Step functions, etc.,
* **Database**: Oracle, SQL Server, MySQL, Postgres, Aurora, DynamoDB
* **Operating Systems**: Ubuntu, Red Hat Linux, Windows, CentOS 7
* **Monitoring:** Prometheus & Grafana, New Relic
* **AWS:** Blue Green Deployment, Load Balancer, Route53, etc..

# Work History

## DevOps Engineer

## Landmark Technologies – New York, NY 01/2023 - Current

* Extensive experience in implementing and managing DevOps practices, including CI/CD pipelines, infrastructure automation, and configuration management.
* Proficient in blue/green deployment strategies, ensuring zero downtime and smooth transitions between different application versions.
* Skilled in using cloud services such as AWS (Amazon Web Services) for provisioning and managing infrastructure resources, including EC2, ECS, and ALB.
* Hands-on experience with containerization technologies like Docker, creating and maintaining Dockerfiles for efficient application deployment and scalability.
* Proficient in managing and securing IAM (Identity and Access Management) policies and roles to ensure proper access controls and permissions within the infrastructure.
* Integrated Cloud forms with OpenShift to monitor OpenShift nodes, pods, services, and container metrics and logs.
* Created and managed test environment using Docker and Kubernetes, initiated instances depending upon development team requirements.
* Defined and set best practices for code management, build, deploy, and release across multiple teams/products in CI /CD model on Azure DevOps.
* Worked on Microservices project- to build Docker containers and deploy to Dev, iTest, Scale, UAT (SIT), PROD.
* Involved in DevOps automation processes for build and deploy systems for legacy and microservices projects.
* Implemented CI/CD for all the Microservices of the OEM application using Jenkins, Maven, and Ansible.
* Used UDeploy as Continuous Deployment tool and to setup automated and scheduled deployments.
* Wrote PowerShell scripts to automatically restart the uDeploy agents on LINUX machines.
* Worked on multitude of Docker components like Docker Engine, Hub, Machine, Compose and Docker Registry.
* Wrote Scripts in Python and Shell to customize builds, promotion and automate repeated tasks.
* Worked with developers for building the application using NodeJS.
* Deployed NodeJS applications into production servers through CI/CD pipeline.
* Experienced in utilizing monitoring and logging tools like CloudWatch for proactive infrastructure monitoring and troubleshooting.
* Strong knowledge of code versioning and collaboration tools such as Git, enabling effective collaboration among development teams.
* Familiar with popular DevOps tools like Jenkins, CodePipeline, and GitLab CI/CD for automating build, test, and deployment processes.

## DevOps Engineer

**Crucial Learning** – Provo, UT **03/2022 - 01/2023**

* Designed and implemented CI/CD pipelines for multiple projects using Jenkins, Docker, and Kubernetes, resulting in 60% reduction in deployment time.
* Developed and maintained infrastructure as code using Terraform, improving scalability and reliability of AWS cloud infrastructure.
* Implemented and managed monitoring and logging systems using ELK stack, Grafana, and Prometheus, resulting in improved observability and reduced downtime.
* Managed and supported AWS resources, including EC2 instances, RDS, S3, and Lambda functions, ensuring high availability and scalability.
* Collaborated with development and QA teams to improve testing and deployment processes, resulting in more efficient and streamlined software delivery pipeline.
* Used Kubernetes clusters as a network and load balancer, Kubernetes is also good at running web applications in a clustered way, also used in multiple services by creating images and reduced space.
* Implemented a production ready, load balanced, highly available, fault tolerant, auto scaling, Kubernetes AWS infrastructure and microservice container orchestration.
* Provisioned EC2 instances, configured Autoscaling and defining cloud formation JSON templates using Ansible modules.
* Worked with Chef in implementing roles, data bags and written Chef Cookbooks for various packages.
* Worked with Terraform key features such as Infrastructure as code, Execution plans, Resource Graphs, Change Automation and extensively used Auto scaling launch configuration templates for launching amazon EC2 instances while deploying Micro services.
* Created Python scripts to totally automate AWS services which includes web servers, ELB, Cloud.
* Developing build using Maven as build tool and using Jenkins to kick off the builds to move from one environment to other environments.
* Review/Merge/Remove Git Pull Requests to the bit bucket.
* Hands-on with Git / GitHub for code check-ins/checkouts and branching etc.
* Implemented best practices to protect data and assets Documented project design for reference and future use cases.

## DevOps Engineer

**Crown Equipment Corporation** – New Bremen, OH **03/2017 - 02/2022**

* Automated infrastructure provisioning using Ansible and Terraform, resulting in 40% reduction in infrastructure setup time.
* Involved in DevOps migration and automation processes for build and deploy systems.
* Used Jenkins and implemented CI/CD pipeline using plugins like conditional build step, deploy to Git.
* Created Jenkins jobs and distributing load on Jenkins server by configuring Jenkins’s nodes, which will enable parallel builds.
* Performed automation of CI/CD pipeline in private cloud using Jenkins shared libraries and multibranch pipeline and automated the static code analysis through SonarQube in Jenkins pipeline for checking code quality.
* Used Puppet enterprise to manage application configurations in large VMware environments as well as new SOA environment.
* Experience in writing Puppet manifests and modules to automate the deployment process and to integrating Puppet manifests into Jenkins/Hudson jobs for a continuous Delivery (CD)framework.
* Implemented and managed monitoring systems using Nagios and Grafana stack, resulting in improved observability and reduced downtime.
* Used GIT version control to manage the source code and integrating with Jenkins to support build automation and integrated with JIRA to monitor the commits.
* Used ANT as a build tool on Java projects for the development of build artifacts on the source code.
* Worked on Python to pull a report from access report from Git through Rest API and configured through Jenkins.
* Designed and implemented disaster recovery plan for AWS infrastructure, ensuring business continuity in case of outage.
* Collaborated with development and QA teams to improve software delivery processes, resulting in more efficient and reliable deployment pipeline.
* Collaborated closely with product development teams and other stakeholders Tuned systems to boost performance.

## DevOps Engineer

**DevOps Cognical** – New York  **04/2014 - 02/2017**

* Implemented strategies to increase system uptime, by implemented high availability architecture that increased system uptime to 99.99%.
* Reduced infrastructure costs by 20% by implementing auto-scaling and resource optimization strategies. Worked with software development and testing team members to design and develop robust solutions to meet client requirements for functionality, scalability and performance. Documented outline for project's technical design so that all stakeholders were aware of each milestone
* Utilized best practices at all times and encouraged others to do same, which helped to maintain effective security.
* Analysed and designed the process of release flow for various applications with maximum utilization of the tools ANT and Jenkins/Bamboo. Created the build script using the ANT as a build tool, for the JAVA web application.
* Responsible for installation & configuration of Jenkins to support various Java builds and Jenkins plugins to automate continuous builds and publishing Docker images to the Nexus repository.
* Created Jenkins CI/CD pipelines for continuous build & deployment and integrated Junit and SonarQube plugins in Jenkins for automated testing and for Code quality check.
* Maintained built-related scripts developed in ANT, Maven, Shell, and Python. Created and modified build configuration files including Ant’s build.xml.
* Configured and maintained Jenkins to implement the CI process and integrated the tool with Ant and Maven to schedule the builds. Worked on the Oracle databases in the back end to execute the DMLs and DDLs.
* Written automated software utility to extract the fraud reports for alert generation using SQL, and PLSQL in UNIX.
* Created and used Ansible templates to create customized configuration files for hosts and used Ansible Vault in Ansible playbooks to protect sensitive data.
* Worked to maintain outstanding attendance record, consistently arriving to work ready to start immediately.
* Collaborated with team to determine application requirement specifications Documented project design for reference and future use cases.
* Monitored automated build and continuous software integration process to drive build/release failure resolution.

## DevOps Engineer

# Nation Wide, Columbus, OH 02/2013 – 03/2014

# Expertise in Enterprise repository management tools like Nexus, Artifactory etc.

# Deployment automation for Enterprise Applications to WebSphere, Jboss, Apache, Tomcat with Rundeck and UDeploy.

# Install, Configure, Setup Distributed Mode of Jenkins to handle large Scale Applications.

# Installed and administer Atlassian tool set including JIRA, Confluence, Fisheye and Crucible.

# Written pre-commit, post-commit, post-receive hooks in SVN for Linux environment using shell.

# Re-structured the development methodology with respect to SVN and proposed best branching strategies in SVN.

# Generated Ant, Maven, Perl & UNIX scripts for build activities in QA, Staging and Production env.

# Worked on the transition project, which involves migration activities from Ant to Maven in order to standardize the build across all the applications.

# Installing, configure and Patching SVN servers, Responsible for Administration of Collabnet SVN and Multi Site and Setup the SVN Multisite environment, Responsible for periodic work checks and backups and Monitor health, disk space and optimize performance.

# Implemented rapid-provisioning and life-cycle management for Linux using VMWare, Chef, and custom Ruby/Bash scripts.

# Worked with Chef Environment, Installing Workstation, Bootstrapping Nodes, setting up chef server, bundling recipes into cookbooks and uploading them to Chef-server.

# Integrated Jenkins with tools such as GIT, Bitbucket, Artifactory, Chef to implement CI/CD pipeline.

# Performed SVN to GIT/Bit Bucket migration and managed branching strategies using GIT workflow.

# Managed User access control, Triggers, workflows, hooks, security and repository control in Bitbucket.

# Proficient in setting up and configuring Baselines, Branching, Merging, and Backup through GIT and SVN, Bitbucket.

# Managed Jfrog repository for the current project. Have hands on experience with Bitbucket.

# Experience in installing and configuring Splunk tool 3.x and 4.x versions on Linux machines.

# Education

**Bachelor of Science**: Accounting

**Lagos State University** – Lagos | 11/2011

# Certifications

**AWS CERTIFIED DEVELOPER ASSOCIATE** - Amazon Web Services (12/2022)