**AGBAI ANYA**

**DevOps Engineer**

**PROFESSIONAL SUMMARY**

* **Enthusiastic DevOps Engineer** with over **10+ years** of **IT** experience in the areas of Cloud computing, Systems Administration Management, **Linux Administration,** and designing, testing, and implementing infrastructure and applications.
* Professional experience in full **SDLC** methodologies like **Agile, Waterfall,** and **SCRUM** involving requirements analysis, design, development, testing, and implementation of various applications.
* Expertise in **Amazon Web Services** cloud platform and its services like **EC2**, **S3**, **RDS**, **Lambda**, **VPC**, **VPN**, **Dynamo**, **EBS**, **ELB**, **SNS**, **Glacier**, **Auto - Scaling**, **IAM**, **Route53**, **AMI**, **Security-Groups**, **Cloud Watch**, and **Cloud Formation** through **AWS management** console and **AWS Command Line Interface**.
* Experience in **Cloud Formation** to automate **AWS** environment creation along with the ability to deploy on **AWS**, using build scripts (**AWS CLI**) and automate solutions using **Shell** and **Python**.
* Expert in the installation of **Docker** using **the Docker toolbox**. Created **custom Docker container images**, **tagging** and **pushing** the **images**.
* Proficient in writing Templates for **AWS** IAC using **Terraform** to build staging and production environments.
* Proficient in Deploying and managing **Kubernetes** resources, such as **pods**, **services**, **secrets, namespace**, ingress, config map, and **deployments** within the cluster.
* Experience in Configuration management tools like **Puppet for Deployment on Multiple platforms.**
* Experience in working knowledge with **Python** in writing scripts to automate software configuration processes with **Puppet.**
* Expertise in writing new plugins to support new functionality in **Terraform.**
* Experience in Creating **Shell Scripts (kasha, Bash), and Python** for setting up baselines, branching, merging, and automation processes.
* Expert in automating various infrastructure activities like Continuous Deployment, Application Server setup, and stack monitoring using **Ansible** playbooks and have Integrated **Ansible** with Jenkins.
* Expertise in Infrastructure Automation tools like **Puppet, Ansible, and Terraform.**
* Experience in using **Jenkins** to drive all micro-service builds out to the **Docker** registry and then deploy to **Kubernetes**.
* Experienced using different log monitoring tools like **Splunk**, and **ELK (Elastic Search, Log Stash, and Kibana**) to see log information, monitor, and get health and security notifications from nodes.
* Experience with configuration management using **Ansible, Chef,** and container management with **Docker.**
* Expert in deploying the code through web application servers like **Web Sphere**, **Web Logic**, **Tomcat, and JBoss.**
* Strong experience in **Linux Administration**, **Networking**, **Storage**, and **Cloud technologies**.
* Expertise in using build tools like **MAVEN** and **ANT** for the building of deployable artifacts such as war & ear from source code.
* Experience **in Unix/Linux system administration, Server Builds, System build Installations, Upgrades, Patches, and Troubleshooting on RHEL and CentOS**.
* Hands-on experience with **Chef, Puppet,** and **Ansible** architecture and concepts.
* Experience in Branching, Merging, Tagging, and maintaining the version across the environments using SCM tools like Subversion (**SVN**), **GIT (GitHub, GitLab),** and **Clear case.**
* Experience in working with relational databases like **Oracle, MySQL, MS Access, Postgre SQL, SQL server**, **NoSQL**, **Cassandra, and Mongo DB**.
* Expertise with different Bug Tracking Tools like **JIRA, Clear Quest**, and **Micro Focus Quality Center.**
* **Excellent Analytical** and **Communication skills, Quick Learner, Versatile Team player, and Organized.**

**EDUCATION**

* **BS In Mathematics**

**TECHNICAL SKILLS**

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| **Cloud Environment** | Amazon Web Services: EC2, S3, ELB, kinesis, Auto scaling, Elastic Beanstalk, Cloud Front, Cloud Formation, Elastic, RDS, DMS, VPC, Direct Connect, Route 53, Cloud watch, Cloud trail, IAM, SNS |
| **Programming Languages** | Java, Python, Bash, Ruby, Shell, PowerShell |
| **Automation/ Configuration Tools** | Docker, Jenkins, Bamboo, Puppet, Ansible, Chef, Salt stack, Terraform, Hudson, TFS, Kabana, Nagios, Prometheus. |
| **Application Servers** | Web Logic, Apache Tomcat, JBoss, Web Sphere, and Nginx. |
| **Infrastructure Tools** | VMware, KVM, Puppet Enterprise, Foreman, Apache Lib cloud, AWS, Ansible. |
| **Version Control** | GIT, GitHub, GitLab, Subversion (SVN), and Bit Bucket. |
| **Databases** | MySQL, Oracle, MongoDB, SQL SERVER, Cassandra, Postgre SQL. |
| **Operating Systems** | Unix, LINUX, Windows Family, Mac. |

**PROFESSIONAL EXPERIENCE**

**UMass Memorial Health, Worcester, MA Dec 2021 - Present**

**DevOps Engineer**

**Responsibilities:**

* Managed and examined the Development code following the Software Development Life Cycle Model.
* Responsible for maintaining 4-5 different testing environments and erection of the prod environment in AWS monitoring live traffic, logs, memory utilization, disk utilization, and various other factors that are important for deployment
* Involved in designing and deploying a multitude of applications utilizing almost all of the **AWS stack** (EC2, Route53, S3, RDS, Dynamo DB, SNS, SQS, IAM,) focusing on high availability, fault tolerance, and auto-scaling.
* Implemented rapid provisioning and life-cycle management for **Linux** using **Amazon EC2, Ansible, and custom Ruby /Bash scripts.**
* Design, investigation, and implementation of public-facing websites on **Amazon Web Services** (**AWS**). Using Jenkins Amazon Web Services **(AWS)** Code Deploy plugin to deploy to **AWS**.
* Developed scripts for build, deployment, maintenance, and related tasks using **Jenkins, Docker, Python,** and **Bash.**
* Managed different infrastructure resources, like **physical machines, VMs,** and **Docker containers** using **Terraform.**
* Worked on the creation of Architecture and built a Minimum Viable Product (MVP) for the containerization platform using **Docker and Kubernetes.**
* Worked on AWS **automation services** - **Cloud** Formation templates, **Terraform.**
* Worked on Managing deployments and rollbacks of applications with **Kubernetes orchestration.**
* Worked on creating the **Docker containers**, **Docker** container images, tagging and pushing the images, and **Docker** consoles for managing the application life cycle.
* Worked on build tasks using **Maven, Ant, Gradle, and GNU Make files** and worked with the development team to migrate **Ant scripts to Maven.**
* Worked on **Apache** and Firewalls in both development and production.
* Worked on integrating **GIT** into the Continuous Integration **(CI)** environment along with **Anthill-Pro.**
* Deployed **Ansible modules** to provision and manage AWS EC2 instances, volumes, DNS, and S3.
* Migrated the current **Linux** environment to **AWS/RHEL** Linux environment used auto scaling feature and was involved in Remediation and patching of Unix/Linux Servers.
* Deploy **Docker** Engines in Virtualized Platforms for containerization of multiple applications.
* Implemented a Continuous Delivery pipeline with **Docker, Jenkins, and Git**. Whenever a new Git branch gets started, **Jenkins** automatically builds a new **Docker container.**
* Developed and maintained continuous integration and deployment systems using **Jenkins, ANT, Maven, Nexus, Ansible, and Ruby.**
* Worked on Installing, Configuring, and managing in **Ansible** Centralized Server and creating the playbooks to support various middleware application servers, and was involved in configuring the **Ansible** tower as a configuration management tool to automate repetitive tasks.
* Highly involved in the testing and deployment of restful API using Postman and other CI tools
* Worked in an environment of Amazon Web Services (AWS) products and gained good knowledge in **Elastic Cloud Computing, Simple Storage Services, Glacier, Block Storage, Elastic Beanstalk, Amazon Lambda, Virtual Private Cloud, Load balancing, Relational Database Service, and Cloud Watch.**
* Worked on **AWS CLI tools, EC2, and Cloud formation** to set up a DEV and Testing Environment in **Amazon Cloud**.
* Worked on Apache**, Nginx, Tomcat web, and application** servers for Dev and Integration Test Environments.
* Worked with different Bug tracking tools like **JIRA, Remedy,** and **Bugzilla**.
* Educate the Development teams on **Jenkins, GIT, AWS, and the whole CICD Pipeline process.**
* Create and maintain continuous build and continuous integration environments in **Scrum** and **Agile** projects.

**Environment:** Python, Oracle, AWS (EC2, S3, RDS, EBS, and Elastic Load Balancer, Auto scaling groups and optimized volumes, EC2 instances), VPC, subnets, EC2 instances, ELB, Security Groups. VMware, Jenkins, Docker, Docker containers, Kubernetes, Terraform, Ansible, YAML scripting, Ruby Scripts, Python Scripts

**AG Mednet, Inc, Boston, MA Mar 2020 – Nov 2021**

**DevOps Engineer**

**Responsibilities:**

* Worked with different application teams to understand, and analyze their current process, tools, techniques, and workflows and was involved in the evaluation and finalization of state of art tools.
* Coordinated resolutions with International and Domestic Pharmaceutical and Medical Professionals and/or Clients for best satisfaction rates.
* Ensured transportation of electronic medical images and found any issues in image medical.
* Built and managed development and deployment tools using **Jenkins, SonarQube, Puppet, Docker, Kubernetes, Elastic search,** and other emerging technologies and systems.
* Developed **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.
* Worked with **Amazon EC2, Amazon S3, Elastic Load Balancing**, **IAM, Route 53**, **Cloud formation, VPC**, **Aws Lambda, Auto Scaling, Redshift,** and Security Groups.
* Worked on Management of accounts and information sent successfully via company application.
* Reported to management quick turnaround time for reaching SLA targets.
* Worked on **AWS** services to launch many instances at a time with the help of **Terraform** scripts.
* Worked on large volumes of container clusters with **Docker** and **Kubernetes**.
* Worked on various **Docker** components like **Docker Engine, Hub, Machine, Compose, and Docker Registry**.
* Worked on **Maven** scripts, Installed **Jenkins,** and wrote a **shell script** for end-to-end build and deployment automation.
* Worked on **Jenkins/Hudson by installing, configuring, and maintaining continuous integration (CI)** and **End-to-end automation** for all builds and deployments.
* Worked on **Docker** in defining and creating applications by encapsulating them in containers and collaborated with development support teams to set up a **continuous delivery** environment.
* Installed/Configured/Managed **Puppet** Master/Agent. Wrote custom Modules and Manifests, downloaded pre-written modules from **puppet**-forge. Upgradation or Migration of **Puppet** Community and Enterprise.
* Wrote scripts to perform deploys to **Tomcat Web server** and **Web Sphere App Servers**.
* Installed and configured an automated tool **Puppet** that included the installation and configuration of the **Puppet master**, agent nodes, and an admin control workstation.
* Written, maintained, reviewed, and documented **modules, manifests, Hiera configurations,** and **Git repositories** for Puppet Enterprise on **RHEL and SLES platforms**.
* Worked in an environment majorly involved in **Infrastructure as a code (Isaac)**, execution plans, resource graph, and change automation using **Terraform**. Managed **GCP** infrastructure as code using **Terraform**.
* Worked on **AWS** services such **as IAM, route 53, EC2, EBS, AMI, Auto scaling, VPC, Load balancer, RDS, VPC, ECS, Cloud watch, Cloud formation, SNS, etc.**
* Worked on designing and deploying a multitude of applications utilizing almost all the **AWS stack (Including EC2, Route53, S3,** **RDS, Dynamo DB, SNS, SQS, and IAM)** focusing on high-availability, fault tolerance, and auto-scaling in AWS CloudFormation.
* Maintained the user accounts **IAM Roles, VPC, RDB, Dynamo DB, SES, SQS, and SNS** services in the **AWS cloud.**
* Worked on **Puppet** for configuration management of hosted instances within **AWS**. Configuring and Networking of Virtual Private Cloud.
* Maintained QA environment, solved the issue of QA, and maintained DB version according to releases. Also published code and DB on production and staging as per business requirements.
* Provided end-user training for all **GIT** users to effectively use the tool.
* Created continuous integration system using **Ant, Team City, full automation, Continuous Integration, faster and flawless deployments.**
* Worked on different infrastructure resources, like physical machines, **VMs,** and even **Docker containers** using **Terraform** and created automated build procedures to ensure code is always ready for deployment in **AWS**.
* Involved in deploying new manifests and modules to numerous **puppet** clients for System and Application Configuration Management.
* Created extensive documentation, including straightforward how-to procedures for common administrative tasks.

**Environment:** Puppet, AWS (EC2, VPC, ELB, S3, RDS, Cloud Trail, and Route 53), Docker, JIRA, TFS, Team City, Kubernetes, AWS, Maven, Docker, GIT, Python, Remedy, Shell Scripting, GIT, UNIX/Linux, Oracle

**Acclaim Home Healthcare, Worcester, MA Jun 2018 – Feb 2020**

**DevOps Engineer**

**Responsibilities:**

* Analyzed and designed the automation framework system and provided a better solution to the client.
* Worked closely with the development and operations organizations to implement the necessary tools and processes to support the automation of builds, deployments, testing, and infrastructure (Infrastructure as code) using **Chef**.
* Managed cookbooks in **Chef** and Implemented environments, roles, and templates in Chef for better environment management.
* Used **Shell scripts** for day-to-day activities and tasks for automation.
* Used Jenkins tool to automate the build process.
* Installed and configured Jenkins master and slave nodes. Built CI/CD pipeline and managed the infrastructure as code using Chef.
* Responsible for taking the source code and compiling using Maven and package it in its distributable format, such as a WAR file.
* Worked on cloud platforms like **AWS.**
* Created and implemented chef cookbooks for deployment and also used Chef Recipes to create a Deployment directly into **Amazon EC2 instances**.
* Worked in **GIT** to manage source code.
* Set up **Chef Server**, workstation, and client and wrote scripts to deploy applications.
* Developed **Chef** Recipes to configure, deploy, and maintain software components of the existing infrastructure.
* Deployed the applications to **Tomcat** Application Server and static content to Apache web servers.
* Automated the continuous integration and deployments using **Jenkins, and Docker**.
* Installed, Configured, and Managed Monitoring Tools such as Nagios for Resource Monitoring/Network Monitoring.
* Worked on Docker container to create **Docker** images for different environments.
* Implemented processes for release management, automated code deployment, configuration management, and monitoring.

**Environment**: Chef, Amazon EC2, S3, RDS, VPC, ELB, EBS, Auto scaling, UNIX/LINUX, Jenkins, Apache Tomcat, Shell Scripts, Docker, Nagios, Oracle

**Citizens, Boston, MA**  **Sep 2016 – May 2018**

**DevOps Engineer**

**Responsibilities:**

* Delivered centralized software configuration management for enterprise application projects in a multi-tiered high-availability environment.
* Used **AWS** services to launch many instances at a time with the help of **Terraform scripts.**
* Evolved new tools/methodologies to improve this existing process and show better results to all stakeholders.
* Wrote **Maven** scripts, Installed **Jenkins,** and wrote a **shell script** for end-to-end build and deployment automation.
* Set up various Team Projects into different Team Project Collections in TFS.
* Supported the code builds by integrating with the continuous integration tool **(Jenkins).**
* Extensively worked on **Jenkins/Hudson by installing, configuring, and maintaining continuous integration (CI)** and **End-to-End automation** for all builds and deployments.
* Worked on **Bash** and **Python,** including **Boto3** to supplement automation provided by **Terraform** for tasks such as encrypting **EBS** volumes backing **AMIs** and scheduling **Lambda** functions for routine **AWS** tasks.
* Built Continuous Integration environment, Continuous delivery environment, and Integrated delivery (CI and CD process) Using **Jenkins, Nexus, and Yum.**
* Configured and maintained codebase to support the build and deployment of code on servers.
* Used **GIT** version control to manage the source code and integrate GIT with Jenkins to support build automation.
* Migrated Projects from SVN to GIT.
* Monitored the **UAT/Production Environments** for any downtime issues by performing regular cron job updates in servers.
* Handled large volumes of container clusters with **Docker**, and **Kubernetes**.
* Involved in designing and deploying a multitude of applications utilizing almost all the **AWS stack (Including EC2, Route53, S3, RDS, Dynamo DB, SNS, SQS, and IAM)** focusing on high-availability, fault tolerance, and auto-scaling in AWS CloudFormation.
* Maintained the user accounts **IAM Roles, VPC, RDB, Dynamo DB, SES, SQS, and SNS services** in the **AWS cloud.**
* Used **AWS** services such as **IAM, route 53, EC2, EBS, AMI, Auto scaling, VPC, Load balancer, RDS, VPC, ECS, Cloud watch, Cloud formation, SNS, etc.**
* Solved the issue of QA, and maintained DB version according to releases. Also published code and DB on production and staging as per business requirements.

**Environment:** Python, AWS, JIRA, TFS, TeamCity, Kubernetes, Maven, Docker, GIT, Remedy, Shell Scripting, GIT, UNIX/Linux, Oracle

**Vertex Pharmaceuticals, Boston, MA**  **Dec 2014 – Aug 2016**

**DevOps Engineer**

**Responsibilities:**

* Designed and managed public and private cloud infrastructures using **AWS,** which includes VPC, EC2, S3, Cloud Front, Elastic File System, RDS, Direct Connect, Route53, Cloud Watch, Cloud Trail, and IAM. Operations were automated using CloudFormation.
* Set up **CI/CD pipelines** so that each commit a developer makes goes through the standard software development lifecycle and gets tested well enough before it can make it to production.
* Implemented Cloud Infrastructure as a service environment using open-source technology OpenStack to enable portability of cloud services across hybrid cloud environments.
* Worked on **OpenStack** threat modeling which takes a comprehensive look at the system components, protocols, and code.
* Deployed **AWS Infrastructure** with IAC using **Terraform** as well as Cloud Formation on some of the legacy applications.
* Worked on Target deployments of AWS infrastructure to dev, **QA,** and prod environments using Terraform code.
* Worked with the development team to migrate **Ant scripts** to **Maven**; worked on authoring POM.XML files, performed releases with the Maven release plugin, and managed Maven repositories.
* Developed automation scripting in **Python** to deploy and manage Java applications across **Linux servers**.
* Worked on customization of existing Python scripts of some of the internal applications.
* Utilized AWS step-function for orchestrating and automating the pipeline.
* Developed scripts for **AWS** orchestration, maintenance, and expansion of AWS infrastructure.
* Involved in branching, tagging, and maintaining the version across the environments using SCM tools like **GIT, Subversion (SVN),** and TFS.
* Created **Docker** images using a Docker file and worked on Docker container snapshots, removed images, managed Docker volumes as well and set up Docker Host.
* Used **Kubernetes** as an open-source platform for automating deployment, scaling, and operations of application containers across clusters of hosts, providing container-centric infrastructure.
* Established monitoring for **Microservice-based** applications using **Grafana**.
* Used **ELK** solutions for log monitoring and log aggregation.
* Configured AWS EMR to process big data across Hadoop clusters of virtual servers on **S3.**
* Implemented security measures AWS provides and employed key concepts of **IAM**.
* Added support for **Amazon AWS S3** and RDS to host static/media files and the database into Amazon Cloud.

**Environment:** AWS, Grafana, Kubernetes, Maven, Docker, GIT, Python, Shell Scripting, GIT, Linux, Oracle

**GEICO Insurance Agent, Saugus, MA**  **Mar 2013 – Nov 2014**

**Linux Administration**

**Responsibilities:**

* Managed and examined the Development code following the Software Development Life Cycle Model.
* Automated infrastructure provisions on **Amazon Web Services** with **Terraform.**
* Merged release branches to the trunk after the production release and resolved conflicts that arose during the merge in both Subversion and **GIT**. Developed and implemented build and deployment scripts for applications, and works on build management, performance tuning, and improvement automation.
* Developed build and deployment scripts using **ANT** and **Maven** as build tools in Jenkins to move from one environment to another environment.
* Performed software configuration/release management activities for three different Java applications.
* Designed and implemented a Continuous Integration process using tools like Hudson with approval from development and other affected teams. Defined processes to build and deliver software baselines for internal as well as external customers.
* Converted old builds using MAKE to **APACHE, ANT,** and **XML** for doing Java builds Created and maintained built wrapper scripts using PERL.
* Maintained and executed build scripts by coordinating with development and **QA teams**. Responsible for building and deploying on different environments simultaneously.
* Deployed the **EAR** and **WAR** archives into WebLogic and Apache Servers.
* Installation of Oracle Patches and Troubleshooting, Creating and modifying application-related objects, Creating Profiles, Users, and Roles, and maintaining system security.
* Involved in developing custom scripts using **Shell** (bash, ksh) to automate jobs.
* Implemented passwordless (**SSH)** Authentication between servers.
* Used Disk Management Utility for file system creation and file system management.
* Created and Maintained Subversion repositories, branches, and tags.
* Configured and Maintained **Apache web servers** for the Release Management Team's internal use. Aided developers in resolving problems.
* Monitored the progression of releases and kept them on track for delivery on the planned release date. Submit requests for implementation to various groups who participate in the release.
* Assembled **Release Kit** and completed all paperwork, including implementation/backout plans. Turnover documentation monitors the status of actual production turnover.
* Rebuilder of existing platform to Docker containers and set up Kubernetes clusters using **Amazon EKS.**
* Automated data onboarding and analysis processes to support greater data variety and velocity.
* Launched serverless applications using **AWS Cognito** and **AWS Lambda** to build Web Apps.

**Environment:** Java, AWS,WebLogic, ANT, Terraform, XML, Apache servers, Hudson, Shell, Oracle