**Mamatha D**

**DevOps Engineer**

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Summary:

* Over 4 years of experience working in Information Technology Environment, Experienced in the design and implementation of Continuous Integration, Continuous Delivery, Continuous Deployment and Cloud Management.
* Experience with developing containerization and clustering technologies like Docker and Kubernetes.
* Strong understanding of modern, cloud architectures and DevOps principles.
* Good experience on provisioning different environments using Chef, and Puppet Configuration management tools.
* Good Knowledge in Amazon Cloud Services and its features AWS EC2, and S3.
* Experience in setting up Baselines, Branching, Merging and Automation Processes using Shell, Python and Bash Scripts.
* Experience in branching, tagging and maintaining the version across the environments working on Software Configuration Management (SCM) tools like Subversion (SVN) and GitHub.
* Experienced in writing Chef Recipes to automate build/deployment process and do an overall process improvement to any manual processes.
* Experience working on several Docker components like Docker Engine, Hub, Machine creating Docker images, Compose, Docker Registry and handling multiple images primarily for middleware installations and domain configurations.
* Working experience in Chef Configuration Management tool to automate the installation of various applications and using Data bags to segregate the application and environment specific data
* In depth knowledge & experience in creating CI/CD pipelines using Jenkins.
* Good experience on provisioning different environments using Chef, Puppet and Ansible Configuration management tools.
* Hands on experience on Chef Enterprise, installed workstation, bootstrapped nodes, wrote recipes and cookbooks and uploaded them to chef server.
* Strong knowledge and experience in monitoring and logging tools like Splunk and Nagios for monitoring network services and host resources.
* Experience in deploying code trough web application servers like WebSphere, Web Logic, and Tomcat.
* Experienced in all phases of the software development life-cycle (SDLC) and have an in-depth understanding of the principles and best practices of software configuration management (SCM) in Agile, Scrum and Waterfall methodologies.
* Exposure to all stages of Software Development Life Cycle (SDLC) including proposal, process engineering, design, development, testing, deployment and support.

**Technical Skills:**

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| Cloud Environments | AWS (EC2, ELB, S3, IAM, EBS, VPC, Cloud Front) |
| Configuration Management Tools | Puppet, Chef |
| Container tools | Docker, Kubernetes. |
| Monitoring tools | Splunk, Nagios |
| Version Control Tool | GIT/GitHub, Subversion, Bit bucket. |
| Build Tools | Maven, Ant |
| CI/CD Tools | Jenkins, Bamboo |
| Web/ Application Servers | Apache Tomcat, WebSphere, Web Logic |
| Databases | MySQL, SQL |
| Operating Systems | UNIX, Linux, Windows, MacOS |

**Professional Experience:**

**Geisinger Health Plan, Danville, PA Apr 2020 to Present DevOps Engineer**

* Building and maintaining Docker container clusters managed by Kubernetes on AWS.
* Working on creating of custom Docker container images, tagging and pushing the images.
* Working on Docker consoles for managing the application life cycle.
* Building, developing, staging and production software environments and their infrastructure.
* Coordinating and supporting project branches merging process with source code control.
* Creating and maintaining various Jenkins jobs and created master slave nodes.
* Working with issues in the production environment, Apache Tomcat configuration and support for other teams within IT.
* Working on with monitoring tools such as Splunk.
* Building a Docker image with Packer and provisioning with Kubernetes by using Docker Packer Builder.
* Developing automated deployment scripts using Ant to deploy war files, properties file and database changes to development server or QA server and Staging/Production server.
* Creating various roles and environments, written custom.
* Working with System health and performance Monitoring Tools Splunk.
* Creating Jenkins pipelines involving several Downstream/Upstream job configurations based on dependencies from other applications and based on Release methodologies.
* Managing local deployments in Kubernetes, creating a local cluster and deploying application containers.
* Implementing Jenkins as a full cycle continuous delivery tool involving package creation, distribution and deployment onto tomcat application servers.
* Working on several areas of Jenkins like master/slave administrations, access controls, report generations, parameterized /triggered build setups etc.
* Planning, developing and maintaining infrastructure as code using CI/CD deployments using Ansible.
* Implementing CI for several demanding consumer facing applications with bi-weekly releases with Jenkins

**Environment:** Chef, Puppet, Splunk, Docker, Ansible, Jenkins, Kubernetes, GIT, SVN, Ant, Maven, Linux, Tomcat,

**Premier Inc, Pittsburgh, PA Jul 2018 to Mar 2020 DevOps Engineer**

* Designed and implemented CI system: configured Jenkins servers, and Jenkins nodes
* Provisioned Jenkins environment for continuous integration by easing build and testing tasks for developers.
* Used Splunk to Monitor the application logs, Server Logs, Indexes, and Server data..
* Worked with Puppet and Chef which is used to manage Linux.
* Worked on creating of custom Docker container images, tagging and pushing the images.
* Worked on Docker consoles for managing the application life cycle.
* Built, developed, and staged production software environments and their infrastructure.
* Coordinated and supported project branches merging process with source code control.
* Created and maintained various Jenkins jobs and created master slave nodes.
* Managed the source code repository and involved in the build, release and continuous integration process.
* Implemented a Continuous Delivery pipeline with Docker, Jenkins and GitHub.
* Created Docker images using a Docker file, worked on Docker container snapshots, removing images and managed Docker volumes and for branching purpose.
* Configured Jenkins for Continuous Integration with Plugins and created Jobs.
* Worked on creation of puppet manifest files to install tomcat instances and to manage configuration files for multiple applications.
* Worked on design and maintenance of the GIT repositories and the access control strategies.
* Installed and Configured Jenkins for Continuous Integration.
* Participated in configuring and monitoring distributed and multiple platform servers using Puppet. Used Puppet server and workstation to manage and configure nodes.
* Managed virtual instances and disks using Puppet.
* Deployed Puppet, Puppet dashboard for configuration management to existing infrastructure.
* Implemented continuous integration web hooks and workflows around Jenkins to automate the dev test deploy workflow around Puppet codebase.
* Setup puppet master, client and wrote scripts to deploy applications on Dev, QA, production environment.
* Maintained puppet modules and manifests that automate deployment of configuration.

**Environment:** Puppet, SVN, Shell Scripts, Chef, Jenkins, Splunk, JIRA, Solaris, Linux

**MP Infotech Corp, Princeton, NJ Mar 2017 to Jun 2018 DevOps Engineer**

* Worked with development/testing, deployment, systems/infrastructure and project teams to ensure continuous operation of build and test systems
* Configured Docker container for branching purposes and Implemented Docker automation solution for Continuous Integration / Continuous Delivery model.
* Coordinated and assisted developers with establishing and applying appropriate branching, labeling/naming conventions using Subversion.
* Developed and configured Continuous Integration (CI) scripts for releases and Enhancing/Maintaining to suite the request from teams across the organization.
* Deployed Puppet, Puppet dashboard for configuration management to existing infrastructure.
* Analyzed and resolved conflicts related to merging of source code for SVN.
* Implemented, maintained and supported reliable, timely and reproducible builds for project teams.
* Developed procedures to unify, streamline and automate application development and deployment procedures with Linux container technology using Docker.
* Proactively monitored and reported on MySQL/SQL Server database performance and capacity and provide trend analysis for all environments.
* Collaborated with development and support team to setup a continuous delivery environment with the use of Docker.
* Documented Build process, branching strategy and continuous integration design and setup along with deployment instructions for QA.
* Identified build errors in the system and identify the build issue and escalate it to the concerned team after careful analysis.
* Worked and coordinated with QA and developers to get the fix in the release.
* Worked on Continuous Integration System i.e. Jenkins.
* Used Jenkins for official nightly build, test and managing change list.
* Installed Multiple Plug-ins for smooth build and release build pipelines.
* Utilized Jenkins for continuous integration and for End-to-End automation for application build and deployments.
* Performed all necessary day-to-day Subversion/GIT support for different projects, involved in migrating from SVN to GIT.
* Analyzed and resolved conflicts related to merging of source code for GIT.
* Connected continuous integration system with GIT version control repository and continually build as the check-inn's come from the developer and deploying into web application servers
* Used ANT, MAVEN as a build tool to create JAR, WAR, EAR packages with the source code from the shared mount to deploy into Tomcat application server.
* Worked with Shell, Bash scripts f or the deployments and running CRON jobs.

**Environment:** GIT, Jenkins, ANT, Linux, Windows, Windows Server, MY SQL, Shell scripts, Red-Hat, Maven, Tomcat, Shell, Web Logic server

**Education:**

Master of Science

Bachelor of Science