**Lavanya**

**Email:** [**lavanya7925@gmail.com**](mailto:lavanya7925@gmail.com)

**Ph#: 341-202-6956**

[**https://www.linkedin.com/in/lavanya-pinnaboina-617831b7/**](https://www.linkedin.com/in/lavanya-pinnaboina-617831b7/)

**Professional Summary:**

* **DevOps/Build Engineer** with over **6+ years** of experience in solving complex problems with creative solutions, supporting development and operations environments.
* Skilled in Software Development Life Cycles and Agile Programming Methodologies.
* Experience in development and configuration experience with software provisioning tools like **Chef and Puppet**.
* Strong knowledge/experience in creating **Team City, and Jenkins** CI pipelines and good experience in automating deployment pipelines.
* Experienced in **Cloud automation** using **AWS** Cloud Formation templates.
* Experience with **Jenkins**/Hudson, **Team City,** VS Build Pro, Apache Ant, Apache **Tomcat**, Subversion, **Git**, and **Maven**.
* Experience in scripting languages **Ruby**, **Power Shell,** and **Python**.
* Experience in development and configuration experience with software provisioning tools like **Chef and Puppet**.
* Experience with **CI (Continuous Integration)** and **CD (Continuous Deployment)** methodologies using **Jenkins.**
* Experience with migration to Amazon web Services **AWS** from Datacenter.
* Provisioned the highly available EC2 Instances using **Terraform** and cloud formation and wrote new plugins to support new functionality in **Terraform.**
* Expertise in building of deployment artifacts such as war & ear from source code using **Apache ANT** and **MAVEN.**
* Well-versed with user and plugin management for **Puppet.**
* Improved throughput and efficiency of the build system by providing EO/managers rights to trigger a required build.
* Managed infrastructure resources in cloud architecture with close coordination with various functional teams.
* Experience in writingscripts using **Perl, Python, Power Shell,** and **shell scripts** for the build and deployment process
* Installation, configuration, and maintenance of different **Atlassian tools** like **JIRA, Confluence, Bit Bucket, and Bamboo.**
* Strong understanding of infrastructure automation tooling using **Docker and Ansible.**
* Strong experience in working in **Linux** and **Windows** environments.
* Proficient in managing the source code control of multiple development efforts using **Clear Case, Subversion, TFS,** **Git, and CVS** version control tools.
* Experience in migrating source code repositories from various version control systems like **SVN to Git.**
* Extensive experience in setting up baselines, branching, merging, and automation processes using **Power Shell** and **Perl scripts.**
* Experienced in project analysis, gathering user requirements, technical design, and training customers.
* Highly organized, detailed oriented, able to plan, prioritize work and meet deadlines; work well under tight deadlines.
* Ability to work directly with all levels of Management to gather user requirements.
* Excellent communication, interpersonal and managerial skills.

**Technical Skills:**

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| **Build Tools** | Ant, Maven, Jenkins, Hudson & Bambo, Team City |
| **DevOps Tools** | Chef, Puppet, Docker, Ansible, Kubernetes, SonarQube, Terraform, Cloud Watch. |
| **Cloud Technologies** | AWS, Azure |
| **Monitoring Tools** | Nagios, Splunk |
| **Repositories** | Nexus, Artifactory, JFrog. |
| **Languages/Tools** | Shell, Bash, Perl, Ruby, Python, Powe Shell |
| **Databases** | My-SQL, PostgreSQL, SQL Server |
| **Web/App Server** | Apache, IIS, HIS, Tomcat, WebSphere Application Server, JBoss |
| **Bug Tracking Tools** | JIRA, Rally, Bugzilla, and HP Quality Center. |
| **Version Control Tools** | Subversion, GIT, Tortoise SVN, Visual SVN, BitBucket |
| **Operating Systems** | RHEL/CentOS, Ubuntu/Debian, Sun Solaris, Windows Server, UNIX. |
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**Education:**

* Bachelor of Technology, BVRIT, JNTUH

Electrical and Electronics Engineering, July **2017.**

**Professional Experience:**

**Client:** **BMO Harris Bank, Chicago, IL.** **May 2022 – Till Date**

**Role: DevOps Engineer**

**Responsibilities:**

* Coordinated with resources by working closely with Project Manager for the release and Project Manager for all the Operational Projects.
* Responsible for defining branching & merging strategy, check-in policies, improving code quality, automated Gated Check-ins, and defining backup and archival plans.
* Actively involved in the architecture of the **DevOps** platform and cloud solutions.
* Build Automation and Build Pipe Development using **Jenkins/Team City** and **Maven.**
* Analyzed the **Maven** build projects for conversion and conversion to Maven build projects.
* Working for the **DevOps** Platform team responsible for specialization areas related to **Chef** for **Cloud Automation.**
* Developing pom.xml files for **Maven** build scripts.
* Worked on **AWS** for deploying **EC2** instances containing various platforms such as **RHEL, CentOS, and Ubuntu** in Linux and Windows.
* Involved in designing and deploying multiple applications using **AWS** cloud infrastructure focusing on high availability, fault tolerance, and auto-scaling of the instances.
* Leveraged Amazon Web Services like **EC2, RDS, EBS, ELB, Auto scaling, AMI, and IAM through AWS console and API Integration.**
* Created **S3buckets** and managed policies for **S3buckets**, utilized **S3bucket** for storage and backup on **AWS.**
* Creating **Cloud watch** alerts for instances and using them in Auto-scaling launch configurations.
* Implemented and maintained the monitoring and alerting of production and corporate Servers/storage using **AWS Cloud watch.**
* Created **Cloud Formation** templates and deployed AWS resources using it.
* Deploy **Ansible** and **Jenkins** to completely provision and manage **AWS EC2 instances, volumes, DNS, and S3.**
* Used **Jenkins** to automate most of the build-related tasks.
* Set up CI (Continuous Integration) for major releases in **Jenkins** and **Team City.**
* Worked on **CI/CD** Pipeline, every tool will be automated and triggered using Jenkinsfile.
* Responsible for setting up from scratch and maintaining automated **CI/CD** Pipelines for multiple apps.
* Involved in managing other version control tools like **GIT.**
* Developed and implemented the software release management for the release of web applications.
* Managed the **Maven** Repository using the **Nexus tool** and used the same to share the snapshots and releases of internal projects.
* Created build pipeline for application versions, using **Jenkins** and **Team City** Continues Integration.
* Worked **GIT, Bit bucket** repository setup, and branching and merging strategies.
* Used the **JFrog Artifactory repository** tool for maintaining the java based release code packages.
* Wrote **UNIX shell Scripts** and **Power Shell scripts** for software automation.
* Implemented and Enhanced the Existing Scripts which are developed in Shell, **Power Shell,** **Ruby, and Python.**
* Deployed the static content to Apache web servers and applications to the Tomcat Application server.
* Used **Git** for source code version control and integrated with Jenkins for **CI/CD** pipeline,
* Used **SonarQube** for code coverage and code quality.
* Involved in creating and working through **Docker images**, containers, and **Docker Consoles** for managing the Application Life cycle.
* Build **Nagios** monitors for new services being deployed.
* Used **JIRA** as a Change Management/ Work Management/SCRUM **Agile** Tool.
* Container management using **Docker by writing Docker** files and setting up the automated build on Docker HUB and installing and configuring **Kubernetes.**
* Developed custom automation build system using **TFS Build** on Team Foundation Server.
* Build, configured, and support Application team environments.
* Worked closely with the development team and SQA team for product releases.

**Environment**: DevOps, SVN, CVS, Maven, AWS, EC2, Ansible, Chef, Git, Bitbucket, CI/CD, SonarQube, Jenkins, Nuget, Power Shell, Team City, Docker, Kubernetes, Tomcat, Shell, Perl, TFS, JFrog, JIRA, Windows and LINUX.

**Client:** **Budco Financial, Detroit, MI. Mar 2021 – Apr 2022**

**Role: DevOps Engineer**

**Responsibilities:**

* Worked on the Microsoft Release management server for maintaining the release management activities.
* Troubleshoot Build and Deploy Issues, with little downtime.
* Used **Maven** scripts to build the source code. Supported and helped to create Dynamic Views and Snapshot views for end users.
* Created and maintained various **DevOps-related** tools for the team such as provisioning scripts, deployment tools, and development and staging environments on **AWS and Cloud.**
* Worked as a DevOps Engineer, to build a **CI/CD** whole pipeline using various DevOps tools namely **Jenkins, Docker,** AWS, and **SonarQube.**
* Developed strategy to migrate Dev/Test/Production from an enterprise VMware infrastructure to the **IaaS Amazon Web Services (**AWS) Cloud environment.
* Monitor all **AWS** instances through **Nagios.**
* Design of Cloud architectures for customers looking to migrate or develop new **PaaS, IaaS,** or hybrid solutions utilizing Microsoft Azure or **Amazon Web Services (AWS).**
* Used **Ansible** to manage systems configuration to facilitate interoperability between existing infrastructure and new infrastructure in alternate physical data centers or cloud (AWS).
* Development of automation of **Kubernetes** clusters with **Ansible,** writing playbooks.
* Automated the cloud deployments using **Chef, Python, and AWS** cloud Formation Templates.
* Written **Chef Recipes** to automate our build/deployment process and do an overall process improvement to any manual processes.
* Created **Terraform modules** to create instances in AWS & automated the process of creation of resources is AWS using **Terraform.**
* Implemented rapid provisioning and life-cycle management for **Ubuntu Linux** using **Amazon EC2**, **Chef,** and custom **Ruby/Bash** scripts.
* Implemented **AWS** solutions using **EC2, S3, RDS, EBS, Elastic Load Balancer**, Auto scaling groups, Optimized volumes, and EC2 instances.
* Developed automation scripting in Python (core) using **Puppet** to deploy and manage Java applications across Linux servers
* Designed, Installed, and Implemented **CI/CD** automation system.
* Used Jenkins in setting up **CI/CD** pipeline to deliver the software with better quality and fast by using different plugging like EMMA, check style, and find bugs resources.
* Comfortable and flexible with installing, updating, and configuring various flavors of **UNIX** and **Windows.**
* Performed and deployed Builds for various Environments like QA, Integration, UAT, and Productions Environments
* Automated deployment of builds to different environments using **Jenkins.**
* Involved in the implementation of **Jenkins/Hudson, Team City** as a Continuous Integration Tool Have Experience on **Ruby with Chef** Automation tools.
* Automated Virtual Infrastructure using **PowerShell.**
* Implemented Jenkins Workflow and Plugins for repeatable deployments of multi-tier applications, artifacts, and services to **Docker** and **Red Hat.**
* Developed **PowerShell scripts** for Windows Puppet automation, including using the **NuGet** platform to provide packaging support for software installation (ala YUM for Linux).
* Parse the Application and System logs using **Python** and **PowerShell** for all business applications to proactively monitor and trace errors with automated email alerts to various teams internally.
* Administer and Maintain Source Code Repositories including **GIT and TFS.**
* Used **Maven** as a build tool on Java projects for the development of build artifacts on the source code.
* Documented all build and release process-related items. Level one support for all the build and deploy issues encounter during the build process.

**Environment:** DevOps, GIT, Bit Bucket, Maven, Jenkins, CI/CD, Chef, Ansible, Kubernetes, JFrog, AWS, EC2, Team City, Power Shell, Apache JMeter, Bamboo, Docker, Python, Perl, Shell, SonarQube, TFS, Windows and LIXUX.

**Client: Cigna Health Care, Denver, CO. Oct 2019 – Feb 2021**

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

**Responsibilities:**

* Participated in the release cycle of the product which involves environments like Development QA UAT and Production.
* Builds and deploys J2EE application in **JBoss using Python scripts.**
* Assist with maintaining current build systems, developed build scripts, and maintained the source control system
* Developed build and deployment scripts using **Maven and ANT** as build tools in Jenkins/Team City to move from one environment to another environments.
* Implemented **Chef** to deploy the builds for Dev, QA, and production.
* Maintained and developed infrastructure using **Chef**, **Jenkins, and multiple AWS** tools.
* Publishing the Release notes for all the releases using **Confluence.**
* Carried out deployments and builds on various environments using Puppet continuous integration tool.
* Worked in an agile development team to deliver an end-to-end continuous integration/continuous delivery **(CI/CD)** product in an open-source environment using tools like **Puppet and Jenkins.**
* Created **Jenkins** Workflows for the pre-deployment process (DB execution, Environment configuration changes, etc.) on both QA and preproduction Environments.
* Set up the **CI/CD** environment and created monitoring scripts for all new JVMs.
* Involved in Setting up **CI/CD** Environment using Jenkins.
* Worked with **GIT** and Subversion to manage source code.
* Involved in setting up Rally as a defect-tracking system and configuring various workflows, customizations, and plugins for the **Rally** bug/issue tracker.
* Defined Microsoft processes to build and deliver software baselines for internal as well as external customers.
* Coordinated with all the teams before and after the production deployments for the smooth production releases
* Integrated Maven with Subversion to manage and deploy project-related tags.
* Working closely with Web Administrators to understand, participate, and experience the technical architect for websites such as **Apache,** **JBoss, WebSphere, and WebLogic**; and deploying **J2EE** Applications to these environments.
* Created Maven POMs to automate the build process for the new projects and integrated them with third-party tools like **SonarQube.**
* Analyzed, defined, and developed build process improvements using **TFS.**
* Provided assistance for the smooth phase of Release for the Emergency and Expedite Releases by getting the Director Level Approval and coordinating with different teams.
* Created a complete release process doc, which explains all the steps involved in the release process.
* Updated the Database Tables running the Database Scripts.

**Environment:** Java/J2EE, Chef, Puppet, Maven, Subversion, Git, GitHub, CI/CD, UNIX, Rally, Shell, Chef, AWS, Jenkins, Team City, Python, JBoss, WebSphere, Confluence, Linux, TFS, MYSQL, and Windows.

Client: JC Penney, Plano, TX. Jun 2017 – Sep 2019

**Role:** **Build-Release Engineer**

**Responsibilities:**

* Worked portal for triggering **builds** and **releasing** them to stakeholders by understanding the pain points of Developers and QA engineers.
* Maintained the FTP server in which the builds were copied.
* Worked on establishing a streamlined release process for the development team from scratch.
* Created release notes based on the contents of builds and publish build artifacts to the stakeholders.
* **Continuous Integration:** implemented and promoted the use of Jenkins within the developer community. Validated **Jenkins**, **Team City** along with Bamboo.
* Administrated and configured **Jenkins** to aid in the build and deployment process. Also automated jobs with **Shell** and **Python** scripts inside the **Jenkins CI** framework.
* Created **build/deploy** documentation in confluence for various applications.
* Used **Maven scripts** to build the source code. Supported and helped to create Dynamic Views and Snapshot views for end users.
* Deployed code to production environments using **Vagrant** to ensure zero downtime and provided production support during live releases.
* Have done various POCs to explain and demonstrate the possibility of implementing **CI/CD** in various projects.
* Developed **Jenkins Plugins** which integrate our In-house tools with **Jenkins.**
* Developed **UNIX** and **Perl Scripts** for the purpose of manual deployment of the code to the different environments
* Developed scripts for executing validation/test cases automatically after build.
* Created groups/users and defined user permissions for the projects in **TFS.**
* Managed central repositories: Implemented Atlassian Stash along with GIT to host GIT central repositories for source code across products, facilitate code reviews and login audits for Security Compliance.
* Developed and maintained an in-house Code review system before migrating to the lightweight code review system available in Stash.
* Designed and implemented the backup strategy for all the critical systems such as build machines, bug tracking tools, central repositories, etc.

**Environment:** Java, Eclipse, Tomcat, Apache, Oracle, Jenkins, CI/CD, Team City, TFS, Python, Ruby, JIRA, Maven, Git, Ubuntu, Ruby, Windows.