**Prem Sagar. Masku**

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**Summary: SENIOR DEVOPS ENGINEER**

* **10 years of IT experience** as a **Technology Lead** for team of 9 members **in CI** (Continuous Integration), **CD** (Continuous Delivery), strong background in **Build and Release Management** and **Cloud Implementation** within the suites for needs of an environment under **DevOps** Culture.
* Expertise in **UNIX** environment and several flavors of **Linux** including **(Red Hat Enterprise, CentOS** & **Ubuntu**) and passionate for automation of deployment & infrastructure management
* Extensively worked on **Jenkins** for Continuous Integration and on tools **Gulp and Jasmine,** for **Test Automation** for JavaScript and **Selenium** for java projects
* Excellent hands on experience on configuration management tool like **Chef, Puppet and Ansible**.
* Experience in Administration / Maintenance of source control management systems such as **G****IT** and **Subversion** [**SVN**]. Created **tags and Branches, commits and pull requests, fixed merge issues** and administered **Software Repositories.** Helped to **improve business** in annual results
* Migrated Version Management Systems **TFS -> GIT, CVS -> SVN and SVN -> GIT**
* Provisioned virtual environments using **Docker and Kubernetes** and **Virtualization** by **Vagrant**
* Experience in Automated processes with custom built **Python, Ruby, Perl & Shell scripts**.
* Experience in cloud automation using **AWS Cloud Formation templates**, **OWASP, SAML Tools**
* Good experience in migration using **Amazon web services** which includes **EC2,** **S3, EBS, RDS, ELK, Route 53, Auto scaling, Security Groups** and Cloud based services like **Microsoft Azure** and **GCP**
* Built solution accelerator for appliance based FWaaS on **Openstack**
* Experience in using build automation tools like **MAVEN, Bamboo, Gradle, and ANT** for the building of deployable artifacts such as **WAR & EAR** from source code.
* Experience with **Oracle, MySQL, NoSQL and Server DB Tasks** and **Kafka** Architecture
* Exposed to all aspects of software development life cycle (**SDLC**) such as Analysis, Planning, Developing, Testing and Implementing and Post-production analysis of the projects.
* Hands on experience in Continuous Monitoring tools like **Nagios** and **Zabbix, Cloud Watch**.
* Experience in using **Tomcat Web Server** and **JBOSS, Weblogic and WebSphere Application Servers** for deployment, containerization (orchestration) using **Docker** & **Kubernetes**
* Extensive experience on **Open stack**, knowledge in Dynamite, **AutoSys,** **NoSQL** like **Redis**.
* Excellent knowledge on **Agile Methodology, ITIL** process and **microservices** architecture

**Technical Competencies:**

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| --- | --- |
| **Operating Systems** | Red Hat Enterprise Linux, Solaris, Ubuntu, Windows 10, Mac OS |
| **Programming Languages** | .Net, Java/J2EE, Go, Spring, C++, C#, Eclipse IDE |
| **Scripting Languages** | Python, Bash, Power Shell, Ruby, Perl, Nodejs, Angular js |
| **Application/Web Servers** | Apache Tomcat, NGINX, HTTP, Web Logic, Jboss, Terraform |
| **Databases** | Oracle MY SQL, NoSQL(Cassandra), SQL Server, PostgreSQL , MongoDB |
| **Web Technology** | XML, HTML5, PHP, CSS, Java Script, Servlets, Django, JSP, Bamboo |
| **Automation/Monitoring tools** | Ansible, Chef, Jenkins, Puppet, Nagios, Nexus, Zabbix, New Relic |
| **Source/Version Control Tools** | GIT, SVN, Clear Case, Salt stack, JIRA, RabbitMQ |
| **Cloud Services** | AWS, Azure, GCP, Containerization (Docker, Kubernetes) |
| **Build Tools** | Maven, Gradle, Ant, SonarQube, Stash, Vagrant, Redis |

**EDUCATION:**

Master’s in **Management** **Information Systems** from **Texas A&M International University (Jan 17-Dec 17) GPA: 4/4**

Bachelor of **Engineering** in **Mechanical Engineering** from **Osmania** **University (Sep 04- May 08)**

**GPA: 3.5/4**

**CERTIFICATION:**

**JAVA** Certified- License Number of **Certification#**: **1068-2740640**

**Professional Experience:**

**Texas A&M International University JAN 17 – Present**

**Role: Senior Devops Engineer Laredo, TX**

**Description:**

* Responsible for migrating from **Bamboo** to **Jenkins** as continues integration tool.
* Trained graduate students in Information Technology on **Containerization and virtual machines**.
* Worked on the transition project, which involves migration activities from Ant to Maven to standardize the build across various applications.
* Administer and Maintain Source Code Repositories including **GIT**, **Bitbucket**, **Subversion**.
* Created and maintained several build definitions and publish profiles to handle automated builds in an **Agile / SCRUM** environment.
* Designed and implemented fully automated server build, management, monitoring and deployment solutions spanning multiple platforms, tools and technologies including **Jenkins Nodes/Agent**
* Deployed continues delivery pipeline by using Jenkins, **Artifactory**, **SonarQube**, Tomcat, AWS.
* Migrate SVN repositories to GIT and administrate **GITLAB** to manage GIT repositories.
* Involved in periodic archiving and storage of the source code for disaster recovery.
* Responsible for Plugin Management, User Management, regular incremental backups and regular maintenance for recovery.
* Established processes and tools to maintain code base integrity, including check-in validation rules and branch/merge processes.
* Documented project's software release management procedures with input decisions.
* Continuously **monitored** for the Disk Space on build machines with **Shell Script** scheduled to run as **Cron job** and sending email notification upon reaching a threshold value of disk usage.
* Managed the application, server configurations and automated the deployments of application to the IBM WebSphere application server.
* Install host **firewall** IP Tables for **RedHat Linux** and **Centos**
* Installed **Jenkins/Plugins** for **GIT Repository**, Setup **SCM** **Polling** for Immediate Build with Maven
* Developed build, auto build and deployment scripts using **MAVEN** as build tools in Jenkins to move from one environment to other environments and create new jobs and branches through Jenkins.
* Experience with container-based deployments using **Docker**, working with Docker images, **Docker** **HUB** and Docker registries. Programming MVC architecture for Spring Applications
* Creating Web Services REST by using **Spring** **REST**
* Developing and handling **JSON** formats to exchange information by using Web Services
* Creating log functionalities for the application by using Aspect Oriented Programing (AOP)
* Handled **backend** tools like MongoDB, RabbitMQ and J2EE applications.
* Handle, creation and maintenance of the persistence layer by using Hibernate
* Proactively monitoring application health status.
* Virtualized the servers using the **Docker** for the test environments and dev-environment needs.

**Environment:** Subversion, GIT hub, Shell, Bamboo, Docker, Azure, Kubernetes, ANT, MAVEN, Jenkins, Openshift, Chef, JIRA, Nexus Maven, LINUX, UNIX, Windows XP, Java, J2EE, Azure, NoSQL

**Harsco, Tulsa, OK AUG 14 – DEC 16**

**Role: Sr. DevOps Engineer Hyd, IN**

**Description:**

Harsco is the world's leading steelmakers, rail companies and energy producers look to support the safe, reliable delivery of products and services to the global marketplace. Metals & Minerals division sets the standard for environmentally sustainable solutions for co-products of steel production. The Industrial division develops cooling units that help reliably convey natural gas along pipelines worldwide. This unit also develops high-efficiency water heaters and engineered grating used in large-scale projects such as New York's One World Trade Centre. Harsco Rail division builds and maintains rail lines from the Swiss Alps to the Amazon rain forest.

**Responsibilities**:

* As a team lead, implemented rapid-provisioning and life-cycle management for Ubuntu & Linux using Amazon Web services **EC2, Chef,** and **Bash/Ruby** scripts supported DevOps Architecture
* Build Automation and Build Pipe Development using **Jenkins** and **Maven**.
* Involved in developing **custom scripts using Perl & Shell (bash, ksh)** to automate jobs.
* Analyzed the **ANT**build projects for conversion and converting to **Maven** build projects.
* Developed **pom.xml** files for **Maven build scripts, Python Script** for CICD in **Ansible**
* Experience in managing Chef as Configuration management tool by developing **Chef** **CookBooks** and **Recipes**, Linux administration includaning performance monitoring and root cause analysis
* Experience in **Git Hub** for Source Code Management of **webhooks**, **build trigger** and automation
* Experience in running the console of **GIT HUB** and resolve issues in the branch management
* Skillful in infrastructure automation by using AWS services like **Amazon AMIs**, **Elastic BeanStalk, Cloud foundry** and **Cloud Formation** for **IAAS, PAAS and SAAS.**
* Utilized **Puppet** and **dashboard** for **Configuration Management** of hosted Instances within **AWS**.
* Implemented Continuous Integration web hooks and workflows around **Jenkins** to **automate** the development and test to deploy workflow around **Puppet** codebase.
* Architected hybrid AWS **CloudWatch**, **Cloud** **Formation** and on-premise solutions for technology clusters and patterns for a team of 9 members.
* Administration in coding / programming as a full stack developer focused in **Java** Technologies and **backend** **tools** like MySQL, SQL Server, using languages: Ruby, Python, Java
* Lead effort to stand up **Devops** platform in private cloud, Google Cloud Platform via micro-architecture and containerization technology with **Docker** and **Kubernetes**
* Experience in network administration, deploying and troubleshooting of DNS, LDAP, NIS, NFS and DHCP etc. Created selenium-based scripts using **Junit**, **OWASP, SAML Tools**
* Strong knowledge on protocols like **FTP, TCP, UDP, ICMP, SFTP, SSH, HTTP, HTTPS, SSL/TLS and firewalls.**
* Proficient with user account maintenance, backup & recovery, Auto-mounting and Printer configuration.
* Managed weekly calls with clients on behalf of team to **resolve** issues & update status of projects
* Created complex SQL Queries using HQL language to access the database.
* Implementation of Quartz **framework** to run jobs.
* Creating log functionalities for the application by using Aspect Oriented Programing (AOP)
* Using CCS3, **JQuery**, HTML5, Tag libs, Bootstrap in front-end programming using JavaScript for presentation views
* Handle of dependency injection of the beans created in the application by using Spring Core
* Performed all necessary day-to-day maintenance **GIT/Subversion** support for different projects.
* Creation of branches in **GIT and Subversion** for parallel development process.
* Used **Jenkins** to automate most of the build related tasks.
* Virtualization using KVM, Xen, **VMWare** ESX/ESXi, vSphere, Oracle Virtual Box, Virtual-manager
* Code analysis automated using the **SonarQube** plugins and jobs in Jenkins
* Managed and monitored the server and network infrastructure using **Nagios and Saltstack**.
* Established shared IT service for Google Cloud Platform Cloud operations in **OWASP, SAML Tools**
* Generated **AWS** migration roadmaps and driving buy-in across complex organization structures.
* Collaborated with consulting, managed services to build and execute **GCP** **migration** plans.
* Resolved issues of common Enterprise requirements into AWS service development teams
* Experience of **public, private DNS, FTP and SFTP servers.**
* Deploy, configure, manage and support web-hosting environments, i.e. **Apache http, Tomcat** for production, staging, development and test environments while supporting development teams
* As a team lead, responsible for administering and monitoring **SAN storage systems**
* Experience in Akamai & AWS **load** **balancer** tools and automation with **Puppet**, **Chef** & **Ansible**
* Created and maintained application environments, procedures and workflows
* Maintained, updated and configured **performance monitoring system in** Google Cloud Platform**.**
* Knowledge of **ITIL process, documentation and** hands on experience in **Kafka architecture**
* Extensive experience in **UNIX** performance monitoring and kernel tuning and Load balancing to ensure stable performance.

**Environment:** Docker, Kubernetes, Maven, AWS, Openshift, Shell, Perl, Azure, Cloud, GIT, Nexus, Jenkins, Tomcat, Python, JIRA, Nagios, Ansible, OWASP, Bamboo, SonarQube, Java, NoSQL, Chef, Puppet

**Client: NCR, Value Labs SEP 12 – AUG 14**

**Role: AWS DevOps Engineer Duluth, GA**

**Description:**

Value labs is a leading global technology company specializing in Digital Enablement and Product Development. Through their unique OneCompany™ model of engagement, we help companies unleash the potential of digital technology to achieve real business outcomes, make processes frictionless and lead in disruptive times. The innovative solutions and a flexible engagement model help our clients stay ahead of the curve, drive revenues, and enhance market position. Over nearly two decades since inception, thriving on the principles of Perfection, Love, Unselfishness and (character) Strength (PLUS), we are ‘inspired by potential’ and firmly believe in the Company as a Platform (CaaP) concept

**Responsibilities:**

* Release Engineer for a team that involved different development teams and multiple simultaneous software releases.
* Developed and implemented software release management strategies for various applications according to agile process.
* Build scripts using **ANT and MAVEN** build tools in Jenkins to move from one environment to other environments.
* Deployed java applications to application servers in agile continuous integration environment and automated the whole process and maintained **GIT HUB** in processes of branch management
* Designed and Developed Jenkins **build** **deployments**.
* Managed Sonatype Nexus repositories to download the artifacts (jar, war & ear) during the build.
* Used Shell scripts to automate the deployment process.
* Experience in project to convert current mission analysis platform to private cloud via micro-architecture and containerization technology (**Docker**) Implemented and maintained the branching and build/release strategies utilizing GIT.
* Evangelize DevOps in CI/CD: Worked on Full stack clusters including **Kubernetes**, Jenkins, GitLab
* Hands on configuration management using **Chef**.
* Configured multiple servers using **Chef**. Defined Chef Server and Workstation to manage and configure nodes. Expertise in **Ansible** to automate the **python scripts** for deployment
* Installed chef server Enterprise on premise/workstation/ bootstrapped the nodes using **knife** and automated by testing chef recipes/cookbooks with test-kitchen/Inspec.
* Experience writing **Chef Cookbooks** and **recipes** to automate the deployment process and to integrating Chef Cookbooks into Jenkins jobs for a continuous delivery framework.
* Used **JIRA** for change control and ticketing, used **Puppet** to automate the build runs and simplify
* Designed and developed the tools to allow efficient configuration management, build and release of software developed in **J2EE, XML and DB2 databases.**
* Deployed the build artifacts into environments like QA, UAT and production
* Mapped workloads to the capabilities of Microsoft Azure for public, private and hybrid clouds.
* Working with multiple **Azure** technical teams, architects, security officers, managers and business users, reviewed and documented workloads, system dependencies and business requirements.
* Having Experience on **Azure** administration and development.
* Exposed Virtual machines and cloud services in the VNets to the Internet using Azure External Load Balancer.
* Automated the build and release management process including monitoring changes in releases.
* Implemented a Continuous Delivery framework using **Jenkins, Bamboo,** **Maven** & **Nexus** in Linux environment Experience with Container based deployments by using Docker.
* Expertise in using **Docker Engine, Docker Hub, Swarm, Docker Registries** and building Docker Images at root of the repository.
* Documented the entire build and release process and provided support.
* Developed, maintained and distributed release notes for each scheduled release.
* Design, implement, and maintain **production** and non-production infrastructure in **GCP** and **AWS**
* Work with engineers, product owners, and stakeholders to build against roadmaps and development plans. Check the issues in **GIT HUB** and create notifications to the concerned teams
* Develop and execute deployment processes for infrastructure, backend, mobile, and hardware/firmware releases
* Design solutions for **automated** deployment and **CI/CD pipelines**
* Design solutions for configuration, data storage, monitoring, and other aspects of a modern technology platform
* Experience in **Nginx, Apache** and **Middleware** Weblogic, **JBoss** technologies
* Provided periodic feedback of status and scheduling issues to the msanagement.
* Kept track of all releases and request of the developers through infrastructure management tool.
* Worked with **JIRA** for Issue Tracking and monitoring.
* Worked with the Architects on SDLC process being the owner of post development environments, **markdown** the documentation from issue tracker of **GIT HUB**
* Experienced in using Ansible as a configuration management tool and developed Ansible Playbooks to provision **Apache Web servers, Tomcat servers, Nginx** and other applications.
* Build scripts using **MAVEN** build tools in Jenkins to move from one environment to other environments.
* Used Snapshot, release and dependency management in Maven
* Expertise in integrating **JUnit**, **Cobertura**, PMD & other code quality tests of CI/CD process

**Environment:** Ansible, GIT, Shell, Perl, Docker, Azure, Kubernetes, ANT, MAVEN, Jenkins, Openshift, AWS Devops, Chef, JIRA, Nexus, LINUX, Java, J2EE, OWASP, SAML, Azure, Java, Bamboo, Python, Puppet

**Thomas & Betts (Now ABB) APR 11 – AUG 12** **Role: DevOps Engineer Memphis, TN**

**Description:**

Thomas & Betts is founded in 1898. Its diverse range of globally developed products, the Software Development Improvement Program was launched in 2009 along with the existing electro mechanical products. ABB acquired Thomas & Betts for $3.9 billion, or $72 a share, in 2012 to become a major player in the North American low-voltage products market. While the initiative is planned and coordinated at the group level, the people and improvements are embedded in all of ABB’s divisions.

**Responsibilities:**

* Creating the automated build and deployment process, re-engineering setup for better user experience, and leading up to building a Continuous Integration system for all our products.
* Developed **automation** framework for Application Deployments to the cloud environments.
* Built TestBot Tunnel, to provide with a secure way to run tests against staged/internal web apps.
* Used **Selenium** IDE for Open source web testing.
* Involved in Manual testing using Test Director to develop test cases, test scripts, executing the scripts and logging the defects.
* Managed and optimize the Continuous Delivery tools like **Jenkins**.
* Installed, Configured and Administered **Hudson**/Jenkins Continuous Integration Tools.
* Extensively used **GIT as Version Control tools** to manage Source Code.
* Developed and implemented Software Release Management strategies for various applications according to the **Agile** process.
* Branching, Tagging, Release Activities on Version Control Tool: **GIT.**
* Developed Custom Scripts to monitor repositories and Server storage.
* Performed the automation using Chef Configuration Management.
* Performed and deployed Builds for various Environments like QA, Integration, UAT and Production through **Redhat Openshift.**
* Involved in all projects that move to production and work closely with the **Data Canter, Development, Quality Assurance and Management** teams to ensure cross communication and confirmed approval of all production changes.
* Installed, configured, administered and supported Web-Sphere Application Server 6.0/6.1/7.0 on LINUX environment.
* Installed and Configured Web-Sphere Application server with LDAP security.
* Built and Deployed **Java/J2EE** to a web application server in an Agile **Continuous Integration environment** and automated the whole process.
* User, Group management for all UNIX servers. Editing crontab in post–installation of Unix servers and expertise in automation tool Jenkins, Docker, Helm, Chef and Kubernetes.
* Created maintained the **Shell**/**Perl** deployment scripts for **Tomcat** web application servers.
* Worked on administering the METACASE client-server architecture domain specific modeling software.
* Worked for Release Engineering, Configuration Management, **Cloud** **Infrastructure**, Automation.
* Worked on the configuring the Jenkins to use MetaCase Software to build Java code and to do the whole CI process on the java code generated by MetaCase.

**Environment:** AWS, Tomcat, SVN, GIT, ANT, Maven, Docker, Chef, Puppet, Jenkins, Openshift, Hudson, Web-sphere, Red hat LDAP, OWASP, SAML Meta-Case, Python, KVM, Ruby, Perl, Shell, Bamboo

**Thyssen Krupp MAY 08- APR 11**

**Role: Build and Release Engineer Hyd, IN**

**Description:**

Thyssen Krupp AG is a German multinational conglomerate, based in Duisburg and Essen and divided into 670 subsidiaries worldwide. In the year 1960, August Thyssen-Hütte AG is Europe's biggest producer of crude steel and ranks number five worldwide. In the decades that follow, Thyssen Handelsunion AG evolves from an exclusive steel trader into a versatile service provider, concentrating by the mid-1990s on its core businesses materials, industrial and facility services, and project management.

**Responsibilities:**

* Participated in the release cycle of the product which involves environments like Development QA UAT and Production.
* Responsible for configuration, maintenance, and troubleshooting of Project.
* Perform biweekly build cycle and testing processes on **Solaris**.
* Developed utilities for developers to check the checkouts, elements modified based on project and branch.
* Used **SOAP** to allow programs that run on disparate operating system(Linux) to communicate using Hypertext Transfer Protocol (**HTTP5**) and its Extensible Markup Language (XML)
* Implemented cloud services in AWS
* Developed **UNIX and Perl** Scripts for manual deployment of the code to the different environments and E-mail the team when the build is completed.
* Created deployment request tickets in Bugzilla for the deploying the code to Production.
* Attended the Minor/Major Event change control meetings to get necessary approvals for the deployment request.
* Used **Perl/Shell** to automate build and deployment Process.
* Hands on experience in Installing, Configuring of Puppet server-clients and wrote Puppet Manifests to automate infrastructure.
* Ability in development and execution of **Shell scripts**, XML and Python Scripts to automate the administrative tasks.
* Expertise in branching, tagging and maintaining the version across the environments by using Source Code Management tools like **Bitbucket, Bamboo and Version** control tools like GIT, Apache Subversion (SVN).
* Extensively worked on administrating tools like Jenkins, Bamboo for leveraging continuous integration and continuous delivery processes for service development.
* Experience at automating the release process of products using shell scripts with tools like Apache **Ant** and **Maven**.
* Expertise in using various repository management tools like Sonatype Nexus and Artifactory to deploy and manage artifacts. Configure bug tracking tools like **JIRA** and Bugzilla.
* Coordinated with developers, Business Analyst and Managers to make sure that code is deployed in the Production environment.
* Executed the **DB Scripts** (DML and DDL) which have dependencies on the code on Oracle DB. Documented the deployment process (Migration Doc) of code to production on an Excel Sheet.

**Environment**: GIT, SOAP, REST, Selenium, Selenium Grid, ANT, WebSphere, Puppet, Ruby/Shell Scripts, Oracle, UNIX, Bugzilla, Jenkins, Puppet, Maven, AWS, NoSQL, Sonar Integration