**Srinath**

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**DevOps Engineer**

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**Summary:**

* 8+ years of experience in IT industry with experience in **Development, Systems Administration**. Extensive experience includes SCM, Build/Release Management, and Change/Incident Management**.**
* Implementing **Software Configuration Management** processes on projects including setting up and supporting our Continuous Integration. Build environment by automating Software builds, release and configuration processes.
* 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.
* Conduct systems design, feasibility and cost studies and recommend cost-effective cloud solutions such as **Amazon Web Services** (AWS).
* Automate, configure & deploy instances on **AWS, Azure, OpenStack and PCF** cloud environments.
* Experience in **AWS** Cloud platform and its features which includes **EC2, S3, EBS, ELB, Cloud Watch, Elastic IP, RDS, SNS, SQS, Glacier, IAM, VPC, Cloud Formation, Route53** and managing **security** groups on **AWS**.
* Created **Azure** Power shell script for APIM backup and restore operations.
* Our Continuous Integration stack consists of **Git, Jenkins CI-CD**, the **Docker** Trusted Registry, and **Open shift** Enterprise.
* Expertise with **UNIX** and **Windows** environments including **shell** and **Python** scripts, **Perforce**, **SVN** (Subversion), **GIT, Build forge** and **TFS**.
* Utilized **Kubernetes** and **Docker** for the runtime environment of the CI/CD system to build, test deploy.
* Created private cloud using **Kubernetes** that supports **DEV, TEST, and PROD** environments.
* Familiarity creating professional-quality automation scripts using a modern scripting language such as **Ruby, Python, or PowerShell**.
* Adept at the execution of **XML, Ant Scripts, Ruby, Perl, Python, Shell Scripts and JAVA** Scripts.
* Expertise includes **bash** and **python scripting** with focus on DevOps tools, CI/CD Architecture and hands-on Engineering.
* Experience on **.NET** and **build automation** and **unit testing scripting** and maintaining code repository and create, document and manage our branching and merging patterns.
* Experience on Oracle Application dealing with Patches and dealing with concurrent systems.
* Expertise in using build tools like **MAVEN and ANT** for the building of deployable Artifacts such as War & Ear from Source Code
* Experience with build tools **Ant, Maven and Gradle** for writing build.xmls, pom.xmls and build.gradles respectively.
* Automating Cloud infrastructure setup via Cloud formation, terraform and - IBM Urbancode Deploy
* Expertise in **Chef** for configuration management and infrastructure automation.
* Involved in several projects setting up builds using **Ansible, Puppet** and **Chef**.
* Written **manifests/Recipes** and **Ruby** scripts to customize the **Puppet/Chef** as per our environment.
* Good experience to setup, configure continuous build processes using Build forge/Cruise **Control/Hudson, Jenkins, Maven, Ant, MS build, Subversion and Clear Case, Perl**.
* Experience in integrating Unit Tests and Code Quality Analysis Tools like **Cobertura, Sonar, fortify, Clover, PMD, Find Bugs and Check Style.**
* Experience in using Nexus and Artifactory repository Managers for java builds.
* Extensively worked on **Jenkins, Build forge** and **AnthillPro** for continuous integration and for End to End automation for all build and deployments.
* Knowledge on creation of **Puppet** manifests files.
* Build and Deploy Oracle Financials Enterprise Business Suite Applications.
* Experience in and demonstrated understanding of source control management concepts such as **Branching, Merging, Labeling/Tagging and Integration**.
* Experienced in **Debugging, Optimizing** and Performance Tuning of **Oracle BI** (Siebel Analytical) Dashboards / Reports to improve performance at Database.
* Involved in the functional usage and Deployment of Applications in **Web Logic, Web Sphere and Apache Tomcat Server.**
* Extensive working experience on configuration management tools **UDeploy, Docker** and **Atlassian**.
* Worked with different Bug tracking tools like **JIRA, Rally, Remedy, HP Quality Center, and Fisheye**.
* Experience on **Hudson/Jenkins and Bamboo** for continuous integration and for the end to end Automation for all the build and deployments.
* Managed environments **DEV, SIT, QA, UAT and PROD** for various releases and designed instance strategies.
* Deep understanding of Layer 7 protocols like HTTP Involved in installation, configuration and administration of **RHEL 3.x/4.x/5.x/6.x Servers**.
* Experienced in file system administration, resolving system errors, crashes and file system errors.
* Software configuration manager for various projects using **Subversion, Lunt build, Ant, Tomcat 5.x, Apache,** etc. for UNIX environments to automating the deployment process.
* Experience in **Troubleshooting Hardware**, Storage, Application Bottlenecks. System Recovery, Crash dump analysis and **Performance Tuning.**
* Experienced in different tools for **monitoring the health checkups for machines like CMC and Nagios version 2.10.**
* Encapsulated Business Rules in **PL/SQL** packages & written data to DB as per the business rules.
* Experience working with **MYSQL**, **MongoDB, Oracle 9i/10g**. Prior coding skills in **PL/SQL**, triggers, stored procedures, design and creation of databases, schemas, tables and indexes.
* Experienced in supporting **7x24 production** computing environments, on-call and weekend support.

**Education:**

Bachelor of Engineer, Anna University - India.

**Technical Skills:**

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| **Programming Languages** | C, C++, C#, JAVA, ASP.NET. |
| **Databases** | SQL 2012/2008/2005, PL/SQL, Oracle 11g/10g/9i, DynamoDB. |
| **Web Technologies** | HTML, XML, SOAP, WSDL, UDDI, XSD, XSL, XPATH. |
| **Operating Systems** | UNIX, Linux, Solaris, Red Hat 4.x, Windows NT2000/7/XP/Vista, Windows Server 2008. |
| **Cloud Technologies** | Amazon Web Services(AWS), Open Stack, Google Cloud Platform. |
| **Scripting Languages** | SHELL, PERL, BASH, POWERSHELL, PYTHON, RUBY. |
| **Version Control Tools** | GIT, GITHUB, TFS, CVS, SVN, Perforce, ClearCase, StarTeam, BitBucket. |
| **Build Tools** | Ant, AnthillPro, Maven, Gradle, MS Build. |
| **Continuous Integration Tools** | Jenkins, Hudson, CruiseControl, Bamboo. |
| **Configuration Management Tools** | Chef, Puppet, Atlassian, Ansible, Docker. |
| **Application/Web Servers** | Oracle Web logic Server 11g, Apache Tomcat, Oracle Application Server 10g BEA WebLogic 8.1/9.2, WebSphere, JBoss, IIS. |
| **Bug Tracking Tools** | JIRA, Remedy, Service Now. |
| **Testing Tools** | HP QTP, Mercury Load Runner, Selenium. |
| **Code Quality Tools** | Fish eye, SonarQube. |
| **Monitoring Tools** | Nagios, Graphite. |
| **User Stories Tracking Tools** | Rally. |

**Professional Experience:**

**Costco Wholesale - WA June 2016 - Till Date**

**DevOps Engineer**

**Responsibilities:**

* Involved in **DevOps migration/automation** processes for build and deploy systems.
* Create and maintain documentation of **deployment plans, test plans, infrastructure diagrams** and other technical documentation.
* **Trouble shoot and identify root cause** for issues and implement permanent corrective actions for incidents.
* Used Cloud formation & launch configuration to automate the repeatable provisioning of **AWS** resources and **PCF**
* Built Jenkins jobs to create AWS infrastructure from GitHub repos containing terraform code.
* Experience in Infrastructure Development and Operations, involved in designing and deploying utilizing almost all the AWS stack like **EC2, EBS, S3, VPC, RDS, SES, ELB, Autoscaling, CloudFront, CloudFormation, ElasticCache, CloudWatch, SNS, Route 53**.
* Deployed **OpenStack** private cloud as part of datacenter collapse, which utilized OpenStack services such as glance, heat and nova compute.
* Setup entire process for automated DEV, QA, and production deployments with **Ansible** and Jenkins.
* Perform **Jenkins administration, updating plugins,** setting up new projects and debugging build problems.
* Deploying micro services based multi-tiered applications to **Kubernetes** on multiple public/private clouds
* Deploy and Manage **Kubernetes** production environment via kops scripts.
* Worked on Standardizing Build & Deployment method. Involved in creating new environments for testing purposes.
* Developed unit and functional tests in **Python** and **Ruby**.
* Worked on the concept of **GIT cloning to create GIT repository**.
* Implemented the supporting platform for **OpenStack** infrastructure on the cloud that all services and applications will rely upon.
* Installing Red hat Linux using **kick start** and applying security polices for hardening the server based on the company policies.
* Developed build and deployment scripts using **ANT** and **MAVEN** as build tools in Jenkins to move from one environment to other environments.
* Used Nexus tool to manage the repository in **Maven** and used the same to share the snapshots and releases of internal projects.
* Conduct systems design, feasibility and cost studies and recommend cost-effective cloud solutions such as **Amazon Web Services** (AWS).
* Configured **AWS Identity and Access Management** (IAM) Groups and Users for improved login authentication.
* Implemented multi-data center and multi-rack Cassandra cluster.
* Worked on **Atlassian** tools like **Bamboo, Jira, and confluence**.
* Created Branches, Labels and performed Merges in **Stash and GIT**.
* Using **Ansible playbooks** to configure systems to a specified state
* Using **Ansible Vault** in **playbooks** to protect sensitive data
* Experienced Managed Linux and Windows virtual servers on AWS EC2 using Puppet.
* Developed automated provisioning and deployment system using Puppet custom modules and manifest.
* Carried out deployments and builds on various environments using Puppet continuous integration tool.
* Deploy and monitor scalable infrastructure on Amazon web services (AWS) & configuration management using Puppet.
* Deployed Puppet, Puppet dashboard for configuration management to existing infrastructure. Implemented admin interfaces built on **Ruby** **on Rails**, VMware performance reporting via Power CLI.
* Coordinate with the Development, Database Administration, QA, and IT Operations teams to ensure there are no resource conflicts.
* Using **ANT, Puppet/ Chef** Scripts with Ivy to build the application and deploy.
* Using **Chef and AWS** allowed me to reduce costs for the department and eliminate unwarranted resources. Automated provisioning of cloud infrastructure with Chef.
* Deployed **artifacts** into **WebLogic/WebSphere** servers. Automated Web server provisioning using **Chef**. Wrote **Chef** manifests to preserve system state for maintenance.

**Environment:** RHEL 6.3, 6.4, 6.7, OEL 5.9, 5.11, 6.4, 6.7, 6.8, RED HAT 7, Puppet, Chef, Jenkins, Terraform Python, Bash Scripting, VMWare, WebLogic, WebSphere, Docker, Shell Scripting, ANT, MAVEN, GIT, Python, Ruby, Oracle HTTP server, Docker, Kubernetes, Ansible, AWS, Chef, SQL server, NOSQL.

**Capital One, Richmond - VA May 2014 – June 2016**

**DevOps Engineer**

**Responsibilities:**

* Maintained and Administered **GIT** Source Code Tool.
* Created Branches, Labels and performed Merges in Stash and GIT.
* Developed Processes, Tools, Automation for **Jenkins** based Software for Build system and delivering SW Builds.
* Utilized **Kubernetes** and **Docker** for the runtime environment of the CI/CD system to build, test deploy.
* Designed and implemented an **NoSQL** solution for managing non-human application account data for all Bank applications.
* Used **Ansible** playbooks to setup Continuous Delivery pipeline. This primarily consists of a Jenkins, Sonar server and Vagrant the infrastructure to run these packages and various supporting software components such as Maven, etc.
* 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.
* Hands on experience on Terraform a tool for building, changing, and versioning infrastructure safely and efficiently.
* Worked with Terraform key features such as Infrastructure as code, Execution plans, Resource Graphs, Change Automation.
* Designed **Puppet** Modules to manage configurations and automate installation process.
* Managed Build results in **Jenkins** and Deployed using workflows.
* Delivered specific versions of various components of an application into target environments.
* Customized TFS 2013 **Work Item Templates and Workflow** of the Work Items.
* Maintain and track inventory using Jenkins and set alerts when the servers are full and need attention.
* Modeled the structure for Multi-tiered applications orchestrate the processes to deploy each tier.
* Developed Build and Deployment Scripts using **ANT** and **MAVEN** as Build tools in Jenkins to move from one environment to other environments.
* Used **MAVEN** as a build tool on java projects for the development of build artifacts like war or ear files on the source code.
* Conducted detailed research on Mesos-Marathon and Kubernetes for container orchestration.
* Have used Confluence to create, share and discuss content and projects.
* Familiar and experienced with **Agile Scrum development.**
* Proposed and implemented branching strategy suitable for agile development in **Subversion**.
* Created Branches and performed Merges in Source Tree & Stash.
* Installed and Configured Jenkins for Automating Deployments and providing automation solution.
* Integrated **GIT** into **Jenkins** to automate the code check-out process.
* Used Jenkins for **Automating Builds and Automating Deployments**.
* Very strong Project Management experience performing **ITIL RM /SCM** activities.
* Replaced existing manual deployment and management processes with **Chef** and **AWS** Works stacks across 4 product platforms.
* Written **Chef** Recipes to **automate** our build/deployment process and do an overall process improvement to any manual processes.
* Worked on creation of **puppet** manifest files to install tomcat instances and to manage configuration files for multiple applications.
* Written **Shell scripts** to apply the Integration label to all the files which needs manual labeling of files.
* Design **AWS** **EC2 instance architecture** to meet high availability application architecture and security parameters.

**Environment:** Jenkins, AWS, GIT, ANT, MAVEN, JIRA, Python, Terraform, Chef, Puppet, BASH & KORN Shell, TFS JAVA/J2EE, WebSphere, Docker, Kubernetes, Ansible, SQL, NOSQL.

**AT&T, Los Angeles - CA Jan 2013 – April 2014**

**Build & Release/Devops Engineer**

**Responsibilities:**

* Interacted with client teams to understand client deployment requests.
* Involved in DevOps migration/automation processes for build and deploy systems.
* Automated the build process using **Bash** and **PERL**.
* Documenting and improving the processes supporting these projects.
* Experienced in Configuration Management, Cloud Infrastructure, and Automation like **OpenStack, Jenkins, SVN,** and **GitHub**.
* Worked on the concept of **GIT** cloning to create GIT repository.
* Deployed **OpenStack** private cloud as part of datacenter collapse, which utilized OpenStack services such as glance, heat and nova compute.
* Building RESTful **API**s in front of different types of **NoSQL** storage engines.
* Integrated process into build system which auto-generates **REST** **API** documentation from source code.
* Created automation tool using **Anthillpro** of daily weekly quarterly **admin activities**, build, patch and package tasks using **AnthillPro**.
* Implemented continuous **integration using Jenkins.**
* Resolved update, merge and password authentication issues in **Bamboo** and **JIRA**
* Developed unit and functional tests in **Python** and **Ruby**.
* Well used and experience in deploying the code through web application servers like Web Sphere, Web Logic, Apache Tomcat.
* Used **Puppet** for centralized configuration management of essential services.
* Good experience writing **Manifests**, Modules using Industry Best Practices for both Deployment Automation and Infra **Configuration Management**.
* Coordinate with the Development, Database Administration, QA, and IT Operations teams to ensure there are no resource conflicts.
* Peer Reviewing Puppet Code and providing advice.
* Provided backup support for **Jenkins** build environment and Involved in Upgrade of **Bamboo** & Artifactory Server.
* Involved in Customization of Work Items, Transition Matrix in **TFS**.
* Wrote **Shell Scripting** to check security setting of the server and to change the server settings.
* Monitored file system space using **shell scripts** **resize file systems** as and when required.
* Worked with the team toevaluate automation product Puppet for adaptability.
* Adopted **Puppet** for the Automation of the environment and worked on Installation and configuration.
* Deployed of staging environments using Vagrant and Docker.
* Adopted **Jenkins** for CI practice and revised existing build procedures. Created multiple **Maven, Shell scripts** for **build automation** and **deployment automation**.
* Documented the SCM process and policies of the company and recommended some process changes.
* Assist with maintaining current **build systems, developed build scripts**, and maintained the source control system.
* Managing users and groups using the amazon identity and access management (IAM).

**Environment:** Subversion(SVN), Hudson, Web Logic, Puppet, Test Director, Mercury, Perl Scripting, Shell Scripting, Quality center, Docker, Visual Build, ANT, TFS 2008/2010(Team Foundation Server), Jenkins, J2EE, Jira, Bamboo, GIT, (WAS), Web services, Web sphere, SQL server, NOSQL.

**Emtel Software, Bangalore – India June 2011 – Jan 2013**

**Build & Release Engineer**

**Responsibilities:**

* Supporting engineering plans and schedules by providing **CM/Release Engineering** services to build, deploy, develop scripts, oversee branch and merge strategies, and build automated tools as necessary to offer services to engineering team.
* Analyze and resolve compilation and deployment errors related to code development, branching, merging and building of source code.
* Efficient in tracing complex build problems, release issues and environment issues in a multi component environment.
* Build **Nagios** monitors for new services being deployed.
* Used the continuous integration tool **Jenkins** to automate the daily processes.
* Migrating J2EE applications to **UNIX** and **Windows** environments by configuring application via **Subversion, and Jenkins**.
* Update **Maven** scripts to use Artifactory repo instead of local repositories.
* Responsible for managing the code in **Subversion** (version controlling).
* Managing **GIT** version control system in creating branches, tags, merge, resolving conflicts.
* Working closely with Web Administrators to understand, participate, and experience the technical architect for web sites such as **Apache, Jboss, Web Logic**; and deploying J2EE Applications to these environments.
* Created multiple **Python** scripts for various application level tasks.
* Worked with **Oracle Database Admin** to keep all the specified tables as assigned by developments in sync for every release.
* Experience in branching, tagging and maintaining the version across the environments using SCM tools like **Subversion (SVN), GIT** and **BIT Bucket**.
* Develop and maintain **ANT (build.xml)** and **Maven (pom.xml)** scripts**.**
* Automated the weekly deployments utilizing **CI tool Jenkins**.
* Good understanding of monitoring tools like **Splunk, NewRelic, Sansu**.
* Build and maintain **SQL** scripts and execute different scripts for different environments.
* Created Instances in Apache **Webserver** and **JBOSS** Application server in QA and Production environments.
* Documented the **SCM** process and policies of the company and recommended some process changes.
* Upgraded and Migrated to **Jira** from **Clear Quest** for bug tracking and project tracking.
* JIRA: Administrated, maintained documentation and provided training to the users.
* Developed & improved build communication, documenting build processes & procedures.
* Worked with scrum and development team in overseeing bug tracking, test prioritization, test automation and releases.
* Deploy production packages to web servers and application servers according to business needs.

**Environment:** Subversion (SVN), GIT, Ant, Maven, Jenkins, JBOSS, Perl Scripts, Shell Scripts, Bash Scripting, Nexus, Jira, Apache Tomcat and UNIX/LINUX.

**Prokarma, Hyderabad - India May 2010 - June 2011**

**LINUX Systems Administrator**

**Responsibilities**:

* Developed **JSP** for **UI** and Java classes as per business logic; used **XSLT** for **UI** to display XML Data.
* Handled Build and Deployment of java applications onto different environments like **Dev, QA, UAT &Prod**.
* Utilize **JavaScript** for client-side validation and **Oracle PL/SQL** for database operations using **JDBC** API.
* Installed **BIND** package, updated the **BIND** database and troubleshoot the problems in Red Hat Linux **DNS** servers.
* Implemented **DAO** for **Oracle 8i** for **DML** Operations like Insert, Update, Delete the records.
* Involved in design, development and deployment of the Application using **Java/J2EE** Technologies.
* Developed logging tool to analyses and monitor performance using AngularJS, Web Services, and WEB API.
* Installed and configured the Nexus repository manager for sharing the artifacts within the company.
* Modified **vfstab** and **fstab** file for automatic mounting while booting, format disk and restoration of UNIX/LINUX files and file systems.
* Developed application in Jakarta Struts Framework using **MVC** architecture and **IDE** tool **WSAD**.
* Handled Branching and Merging with **SVN SCM**; Created Action Forms & Action Classes for the modules.
* Created System audit report like no. of logins, success & failures, running cron jobs, etc.
* Configured and deployed of **Nagios** Monitoring system for managing all the Linux warehouse systems.
* Installed/configured and administrated network servers **DNS, NIS, NFS, SENDMAIL and Application Servers.**
* Involved in coding for the presentation layer using **Apache Struts, XML, and JavaScript**.
* Tech and non-tech refresh of Linux servers which includes new hardware, OS upgrade, application installation, testing.
* Administration of various flavors of Linux like RHEL, SLES, Centos and Unix servers (AIX) which included monitoring and troubleshooting of those servers in the day to day basis.
* Responsible for configuring User Authentication for the Linux/AIX systems using LDAP.
* Handled troubleshooting and performance tuning issues with applications like **Oracle 10.x, 11.x JBoss 5.x, WebLogic 11.x, 12.x.** Installing and deploying Apache, JBoss 5.x.
* Remotely copied files using SFTP, FTP, SCP, and WINSCP & FILEZILLA.
* Implemented MVC design pattern using Spring MVC Framework in cardholder application.
* Installing/upgrading **EMC Time Finder & PowerPath** on **Linux/AIX servers**
* Encapsulated Business Rules in **PL/SQL** packages and written data to database as per the business rules.
* Troubleshooting Linux network, security related issues, capturing packets using tools such as **IPtables, firewall, TCP wrappers, NMAP.**
* Debugged and tested the applications & fine-tuned the performance. Supported the **QA & UAT** bug fixes.
* Prepared and executed test plans; involved in Unit, System, and Integration testing.

**Environment:** Red Hat/Linux 4, SUSE 9, AIX 5.x, Dell Power Edge 1800/1850/2850 servers, Intel servers, Sun Ultra Enterprise 4500, Sun Enterprise 450, Sun Enterprise 420R, Sun Enterprise 250, Sun Fire V20z servers, Shell Scripting, Bash, VERITAS Volume Manager, VERITAS NetBackup 5.0, WAS 5.x/6.0/6.1, JBoss 4.0, Perl Scripting, Veritas Cluster Server, Apache, Java, J2EE, Sybase, BEA WebLogic Server, JSTL, SQL Server, Struts Framework, Nexus, Servlets, JSP, EJB, WinCVS, JavaBeans, Eclipse, UML, Windows XP/Linux.