SANTOSH KOTHA

Professional Summary:

* Highly motivated **DevOps** Consultant with around 8 + years of extensive experience in Software Development Life Cycle (SDLC) including requirements analysis, design specification, coding and testing of enterprise applications.
* Strong hands on development and configuration experience with software provisioning tools like **Chef,Puppet** and Vagrant.
* Experienced in working on **DevOps/Agile** operations process and tools area (Code review, unit test automation, Build & Release automation, Environment, Service, Incident and Change Management).
* Experienced in **Cloud automation** using **AWS** Cloud Formation templates.
* Strong expertise on implementation of Jenkins / Hudson, Teamcity as a Continuous Integration Tools Where I am involved in writing various Build Jobs for building artifacts of the project
* Exhaustive hands-on experience in Windows and **UNIX** environments in rational clear case and SVN, CVS
* Exhaustive hands-on experience in **ANT**, **Maven**, **Shell** programming, **ruby programming**.
* Experience with migration to Amazon web Services **AWS.**
* Experience with CI **(Continuous Integration)** and **CD (Continuous Deployment)** methodologies using **Jenkins/Hudson.**
* Worked on many proof of concept (POC) assignments on OpenStack, Amazon Web Services, Chef and Puppet automation tools and OpanAM.
* Experience in using Version Control Tools VSS, **Sub-Version**, **Git**, perforce.
* Expertise in using build tools like **MAVEN and ANT** for the building of deployable artifacts such as war & ear from source code. Application Deployments & Environment configuration using **Chef, Puppet.**
* Strong hands on experience with scripting languages like Python, **Ruby**, **PowerShe**ll, **and JavaScript**.
* Strong experience in working in **Linux** and **Windows** environments.
* Experience of **Jenkins**/ Hudson, VS Build Pro, Apache Ant, Apache **Tomcat**, Subversion, **Git**, **Maven**.
* Experience in scripting languages **Ruby**, **Shell** and **Python**.
* Experience is using **Tomcat, JBOSS, WebLogic and WebSphere Application** servers for deployments.
* In-depth understanding of the principles and best practices of Software Configuration Management (SCM) processes, which include compiling, packaging, deploying and Application configurations.
* 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
* Experience in Testing of **UNIX** and Windows platforms
* Good knowledge of **UNIX** shell scripts and PowerShell scripts for software automation
* Ability to work directly with all levels of Management to gather user requirements.
* Excellent communication, interpersonal and managerial skills.
* Good presentation and technical writing skills.

**Technical Skills:**

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| **Operating System** | Windows Variants, Linux, **UNIX**. |
| **Languages** | Pascal, C, C++, and JAVA |
| **Server** | Apache, Tomcat, MS-IIS |
| **Infrastructure Tools** | Chef, Puppet, Ansible, SaltStack |
| **Release/Project Management** | Microsoft Release management Server |
| **Issue Tracking** | BugZilla, **JIRA** |
| **Database** | **My SQL** |
| **Version Control** | CVS, **GIT** |
| **CI Tools** | Jenkins, Bamboo, Hudson |
| **Build Tools** | Visual Studio, Make, Maven, Jenkins, Bamboo, And AnthillPro |
| **Monitoring Tools** | Nagios, Splunk |

Professional Experience:

**Client: GEICO, VA. Nov 15 – Present**

**Project: Release Management Automation**

The Government Employees Insurance Company is an American auto insurance company headquartered in Chevy Chase, Maryland. It is the second largest auto insurer in the United States, after State Farm.

**Role**: **DevOps Engineer- Release Engineering**

**Responsibilities:**

* Analyze business and functional requirements.
* Evaluated various Release Management tools to find a feasible solution for the project.
* Adept in end-to-end development of software products from requirement analysis to system study, designing, coding, testing, de-bugging, dealt with ongoing modifications of software components, documentation and implementation.
* Develop solutions on **Microsoft TFS**,**PowerShell** and **Visual Studio**.
* Worked on **Release Management 2015** Update 1 (Server, Client) and **Update 2** (**Web UI**).
* PowerShell scripts for automating pre/post deployment manual steps.
* Develop detail technical design documents and review it with the client.
* Provide technical solutions to the business requirements and creating detailed documents for all the tasks which are performed on a daily basis.
* Conduct integrated testing with sub-systems.
* Coordinate with external integration system teams.
* Coordinate with team members to ensure the delivery of the project daily deliverables on time, quality and schedule.
* Provide strategies, guidance, best practices, defining processes for the team, discuss road blocks, performance issues and follow ups on issues.
* Customize the **TFS build** template to support and to integrate the various deployment scripts.
* Integrated the Build definitions with in Release Deployment Tool to support application life cycle in Release Management.
* Create unit automation tasks using **PowerShell**.
* Configuring the several virtual machines, applying snapshots.
* Implementing and managing automated build systems.
* Installing and configuring new servers in the environment.
* Deployed **.NET** applications on multiple web servers, maintained Load balancing, high availability.

**Environment:** DevOps, **GIT**, TFS 2015, Release Management 2015, Azure, IIS, Chef, Apache Webserver, Windows Server 2008, 2012, Splunk, Remedy, .NET, Perl, Shell, TFS 2013, PowerShell, SQL Server 2014, Windows.

**Client: CVS Health, RI. Nov 14 – Oct 15**

**Project: CVS**

CVS Health is an American retail and health care company headquartered in Woonsocket, Rhode Island. It was originally named CVS Corporation

**Role**: **DevOps Engineer- Release Engineering**

**Responsibilities:**

* Working for DevOps Platform team responsible for specialization areas related to **Chef** for Cloud Automation.
* Actively involved in architecture of **DevOps** platform and cloud solutions.
* Used **chef** for server provisioning and infrastructure automation in a **SAAS** environment.
* Integration of Automated Build with Deployment Pipeline. Currently installed Chef Server and clients to pick up the Build from **Jenkins** repository and deploy in target environments (Integration, QA, and Production).
* Implemented scheduled downtime for non-prod servers for optimizing AWS pricing.
* Created proper documentation for new server setups and existing servers.
* Developed installer scripts using **Maven, Python** for various products to be hosted on Application Servers
* Maintaining a farm of **EC2** instances, **ELB’s** and **RDS.**
* Worked on Cloud automation using **AWS Cloud Formation templates**.
* Implemented **Chef Recipes for** Deployment on build on internal Data Centre Servers. Also re-used and modified same **Chef Recipes** to create a Deployment directly into **Amazon EC2** instances.
* Evaluating testing of **Chef Recipes** – Concept of Test Driven Development for Infrastructure as a Code.
* Automate Continuous Build and Deploy Scripts for **Hudson/Jenkins** Continuous Integration tool
* Automated the cloud deployments using **chef,** python (boto & fabric) and **AWS Cloud Formation Templates**.
* Implemented rapid-provisioning and life-cycle management for Ubuntu Linux using **Amazon EC2**, **Chef,** and custom **Ruby/Bash** scripts
* Implemented **Chef** Cookbooks for OS component configuration to keep AWS server’s template minimal.
* Written **Chef Cookbooks** for various DB configurations to modularize and optimize end product configuration.
* Implemented and building tools such as **Maven**inorderto automateand enhancethe overalloperational environment.
* Maintenance of source code in TFS 2013 and GIT; Branching, Creating LABELS, merging of codes on TFS 2013 and GIT for QA testing and release.
* Integrating various provisioning and monitoring modules into a single platform.
* 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.
* Designed and implemented the backup strategy for all the critical systems such as build machines, bug tracking tools, central repositories etc.

**Environment:**DevOps, **Java/J2EE**, Git, JQuery, Tomcat, Apache, Oracle 11g, Jenkins, Python, Ruby Chef, **JIRA**, **Maven**, Artifactory, **Git**, Ubuntu, CentOS, **Linux**, AWS ELB, AWS SQS, AWS S3, AWS Cloud Formation Templates,AWS RDS, AWS Cloud Watch, Ruby, TFS 2013, PowerShell, Chef.

**Client: SITA, Atlanta, GA. Jul 13 – Oct 14**

###### Project: SITA Voyager

Voyager is a very big initiative by SITA. It’s a program that spans across multiple projects. The vision of the program is move their reservation, ticketing, departure and such legacy mainframe applications to open systems using SOA architecture

**Role: DevOps Engineer/Build Engineer**

**Responsibilities:**

* **Creating the automated build and deployment process for** application, re-engineering setup for better user experience, and leading up to building a continuous integration system for all our products.
* Implemented rapid-provisioning and life-cycle management for Ubuntu Linux using **Amazon EC2**, **Chef,** and custom **Ruby/Bash** scripts
* Worked on Managing the Private Cloud Environment using **Chef**.
* Developed automation framework for Application Deployments to the cloud environments
* Managed and optimize the Continuous Delivery tools like **Jenkins.**
* Install, Configure, Administer **Hudson/Jenkins** Continuous Integration Tool
* Developed and implemented Software Release Management strategies for various applications according to the agile process.
* Developed build and deployment scripts using **Maven**as build tools in **Jenkins** to move from one environment to other environments.
* Implemented **AWS** solutions using **E2C, S3, RDS, EBS, Elastic Load Balancer**, Auto scaling groups,Optimized volumes and EC2 instances.
* Branching, Tagging, Release Activities on Version Control Tools: SVN, **GIT.**
* Developed Perl and shell scripts for automation of the build and release process.
* Develop Custom Scripts to monitor repositories, Server storage.
* Member of the Technical Design team, Build and Release Module for Development of new products.
* Automated the cloud deployments using **chef,** python (boto & fabric) and **AWS Cloud Formation Templates**.
* Branching, merging, Tabling, Tagging and Release Activities on Version Control Tools: **TFS 2013** SVN, **GIT.**
* Configured **Build Controllers** Permissions to create or modify Build Agents.
* Created **Build Definitions** to perform any kind of build in TFS.
* 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 all projects that move to production and work closely with the Data Center, Development, Quality Assurance and Management teams to ensure cross communication and confirmed approval of all production changes
* Automated Virtual Infrastructure using **PowerShell.**
* Built and Deployed Java/J2EE to a web application server in an Agile continuous integration environment and also automated the whole process.
* Created and maintained the Shell/Perl deployment scripts for **TC Server/Tomcat** web application servers.
* Worked on administering the METACASE client-server architecture domain specific modeling software.
* Worked on the configuring the **Jenkins** to use MetaCase Software to build Java code and also to do the whole C.I process on the java code generated by MetaCase.
* Used Maven as build tool on Java projects for the development of build artifacts on the source code.

**Environment:**DevOps, **GIT**, Maven, Jenkins, AWS, Chef, Apache Webserver, Apache JMETER, MetaCase, Python, Perl, Shell, TFS 2013, PowerShell, **Linux**, Windows.

Client: Direct TV , Los Angeles, CA. Aug 12 – Jun 13

DIRECTV (DTV) is the world's leading provider of digital television entertainment services. Through its subsidiaries & affiliated companies in the United States, Brazil, Mexico & other countries in Latin America, DIRECTV provides digital television service to 20.11 million customers in the United States & 16.32 million customers in Latin America.

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

**Responsibilities:**

* Worked portal for triggering **builds** and **releasing** them to stakeholders by understanding the pain points of Developers and QA engineers.
* Implemented **Chef** to deploy the builds for Dev, QA and production.
* Maintained and developed infrastructure using **Chef**, Jenkins, and multiple AWS tools.
* Worked on establishing a streamlined release process for the development team from scratch.
* Worked closely with software developers and DevOps to debug software and system problems.
* Created release notes based on the contents of builds and publish build artifacts to the stakeholders.
* **Continuous Integration:** implemented and promoted use of Jenkins within the developer community. Validated **Jenkins** along with Bamboo.
* Developed scripts for executing validation/test cases automatically after builds.
* 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 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, Ant, Oracle 11g, Jenkins, Python, Ruby JIRA, Maven, Artifactory, Git, AWS, Ruby, Chef, Ubuntu, Windows, Linux.

**Client:Enterprise Rent-A-Car, St Louis,MO. Nov 11 – Jul 12**

Enterprise Rent-A-Car is an internationally recognized brand with more than 6,000 neighborhood and airport locations in the United States, Canada, the U.K., Ireland and Germany.

Role: Sr .Build Engineer

**Responsibilities:**

* Developed build and deployment processes for Pre-production environments.
* Used Subversion as source code repositories.
* Managed **SVN** repositories for branching, merging, and tagging.
* Developed **Shell/Perl** Scripts for automation purpose.
* Resolved merging issues during rebasing and re-integrating branches by conducting meetings with Development Team Leads.
* Responsible for designing and deploying best **SCM** processes and procedures.
* Maintained and coordinated environment configuration, controls, code integrity, and code conflict resolution.
* Used **AGILE MVN** method to develop a build and also **ANT** as a build tool.
* Involved in writing parent pom files to establish the code quality tools integration.
* Installing, configuring and administering Jenkins CI tool on Linux machines.
* Implemented the setup for Master slave architecture to improve the Performance of Jenkins.
* Used **Jenkins, Build forge** for Continuous Integration and deployment into **Tomcat** Application Server.
* Installed and Configured the Nexus repository manager for sharing the artifacts within the company.
* Supported and developed tools for integration, automated testing and release management.
* Verified if the methods used to create and recreate software builds are consistent and repeatable.
* Involved in Research of the project application architecture to support/resolve build, compile, and test issues/problems.
* Releasing code to testing regions or staging areas according to the schedule published.
* Used **Jira** as ticket tracking and work flow tool.

**Environment:** SVN, Shell/Perl Scripts, SCM, Jenkins, AWS, Build Forge, Maven and ANTTomcat, Jira.

**Company: Reliance Communications, Pune, India Feb 10 – Oct 11**

Reliance Communications is an Indian Internet accessand telecommunications company headquartered in Navi Mumbai, India. It is India's fourth largest telecom operatorand 15th largest mobile phone operator.

**Role: Software Engineer (Release/Build)**

**Responsibilities:**

* Part of a World class team whose primary goal is to implement Release/Build as a practice across the Organization covering around 30 projects.
* My Responsibilities include Searching, Learning, Training and Documenting on new DevOps tools which would fit in our current Eco-System.
* Have done various POCs to explain and demonstrate the possibility of implementing **CI/CD** in various projects.
* Developed Jenkins Plugins which integrates our In-house tools with Jenkins.
* Implemented E2E pipeline in **Jenkins** which would do the below activities:
* Poll the SCM for new Commits. (SCM- TFS, SVN etc.)
* Build the code using build tools. (Maven, Ant, MSbuild etc.).
* Designed and implemented automation deployment using to promote major releases, monthly releases, and patches from Development -> Integration/QA -> Staging/UAT -> Production.

**Environment:** Jenkins, Ant, MSbuild,UAT, E2E, SCM, Java.

**Company: Kotak Mahindra Bank Ltd, Pune, India. Sep 08 – Jan 10**

Kotak Mahindra bank is the fourth largest Indian private sector bank by market capitalization, headquartered in Mumbai, Maharashtra.

**Role: Jr. Software Engineer**

**Responsibilities:**

* Designed use cases and other technical design documentations along with other team members for the Application as per the business requirements.
* Followed **Agile (SCRUM)** methodology.
* Developed build Scripts using **Ant**.
* Designed and Implemented MVC architecture using **Spring** Framework, which involved writing Action Classes/Forms/Custom Tag Libraries &**JSP** pages.
* Implemented Design Patterns I.e. Singleton & Factory.
* Developed user interfaces using JSP, Ajax, **JavaScript** and JQuery.
* Used **SVN** for Versioning of source code.
* Designed framework for end user acceptance testing.

**Environment:** Java, JSP, JavaScript, Ajax, JQuery, Ant, Oracle 9i, XML, LDAP, SVN, Junit.