

**Sai Krishna**

**Sr. Build & DevOps Engineer**

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***Professional summary:***

* 6+ years of experience in IT industry comprising of Development, System Administration and Software Configuration Management (SCM).
* Performed development of experience with Python, JavaScript, HTML, HTML5, XHTML, DOM, CSS, CSS3, jQuery, Ajax, Angular JS, Node JS and JSON.
* Extensive experience in Build/Release Management, Subversion, GitHub, Perforce along with Shell, Perl, Ruby and Windows Scripting.
* Good understanding of processes in Software Development Life Cycle, Project Roles and CM plans.
* Experience with software development methodologies such as Waterfall & Agile (Scrum).
* Good Knowledge in UNIX administration, Linux - Santiago, Red hat, Centos, Apache &Windows 2008 R2.
* Managed servers on the Amazon Web Services (AWS) platform instances using Puppet, chef configuration management.
* Expertise in AngularJS on Filters, Validations, Controllers, Directives, Routings, Factory and Service.
* Designed and implemented a Single Page Application with AngularJS, Web API, HTML, CSS, Bootstrap in Visual Studio.
* Used AWS as to maintain model and manage the entire application.
* Hands on micro services and cloud native applications as an architect
* Used Docker as a new level of simplicity to defining and creating applications or services by encapsulating them in containers.
* Used Docker containers for eliminating a source of friction between development and operations.
* Used Docker machine as a virtualization between systems.
* Extensively used Hashi Corp tools like Vagrant, Packer, etc. to convert infrastructure to code to maintain the homogeneity between various systems and system-level operations.
* Good Knowledge in shell and exposure to Python, JPython scripting.
* Hands on experience with SCM tools like GIT, SVN, Stash, JGIT Artifactory, etc.
* Extensively used Nexus repository manager for code versioning.
* Managed enterprise Nexus Repository & NPM Repository for Java projects, Scripts.
* Good knowledge in managing Sonatype Nexus/Artifactory repositories for the maven artifacts and dependencies.
* Strong experience creating ANT/ MAVEN based build scripts.
* Expertise in using CI tools like Jenkins, TFS, and Bamboo etc.
* Hands on experience in configuring and maintaining the Web servers like Apache, Tomcat and App servers like Weblogic, WebSphere and JBoss.
* Developed and configured of Continuous Integration (CI) scripts for releases and Enhancing/Maintaining to suite the request from teams across the organization.
* Continuously deployed and administered Linux services using Chef, and automated product installation and configuration.
* Developed and deployed Chef based cookbooks, recipes, attributes and roles.
* Extensively used chef based Ohai to detect and troubleshoot the attributes on a given node.
* Experience in using configuration management tools like Puppet and Ansible.
* Executed the migration from Bugzilla-based bug-tracking and Jenkins CI tool into the Atlassian-based suite.
* Performed integration of Code Quality Analysis Techniques like Check styles, Find Bugs, NUnit and JUnit, with Jenkins.
* Expertise in troubleshooting the problems generated while building, deploying and also in production support.

***Technical skills:***

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| **Operating Systems** | **UNIX, Linux, Windows, Solaris** |
| **Infrastructure as A service** | **AWS, OpenStack** |
| **Virtualization Platforms** | **Virtual Box, VMWare, Vagrant, Docker** |
| **Configuration management** | **Chef, Puppet, Ansible** |
| **CI, Test & Build Systems** | **Ant, Maven, Jenkins, Bamboo** |
| **Application/Web Servers** | **Oracle Web logic Server, Apache Tomcat, Oracle Application Server, WebSphere, JBoss, Tomcat, IIS** |
| **Scripting Languages** | **Bash, Perl, Ruby, Shell, Python** |
| **Languages** | **C, C++, XML, Java** |
| **Logging & Monitoring Tools** | **Splunk, Nagios, Grafana** |
| **Databases** | **Oracle 10g/11g, MongoDb, MySQL, MS Access** |
| **Code Quality Tools** | **SonarQube, Cobertura** |

***Work experience***

**WellPoint- Virginia Beach, VA**

**May 2015 – Present**

**DevOps Engineer**

WellPoint Systems Inc. develops software for oil and gas companies. The Company engages in the development, installation, and customization of software for managing upstream and midstream operations, as well as financial and enterprise asset management systems for customers in the oil and gas, and mining industry. Its products include Energy Broker, integrated oil and gas marketing solution focused on mid-stream companies; Energy Financial Management, a solution for worldwide financial management and reporting requirements; and DAXEAM, which provides enterprise asset management solutions to various asset intensive industries, including aerospace/aviation, process manufacturing, mining, oil and gas, and fleets. As a DevOps Engineer I was involved in their development, build and release of the products. Once the Product is released, I was also involved in the maintaining of the product in different environments.

***Responsibilities*:**

* Defined and Implemented CM and Release Management Processes, Policies and Procedures.
* Deployed and monitored scalable infrastructure on Amazon web services (AWS)& configuration management using puppet.
* Installed, configured and administrated Tomcat and Web Sphere, using Amazon EC2 with Puppet.
* Experience in managing virtual instances and disks using Puppet.
* Configured Docker containers and created Docker files for different environments.
* Designed Puppet Modules to manage configurations and automate installation process.
* Coordinate/assist developers with establishing and applying appropriate branching, merging conventions using GIT source control.
* Development of a well responsive SPA (single page application) usingAngularJS framework in conjunction with HTML5, CSS3 standards, with front-end team.
* Performed AngularJS form validation and validation messages displaying with ng-show and created a custom validation directive for comparing two input fields.
* Configured and maintained Jenkins to implement the CI process and integrated the tool with Ant and Maven to schedule the builds.
* Continuous Delivery is being enabled through Deployment into several environments of Test, QA, Stress and Production using Jenkins.
* Hands on experience in automating builds and deployment process using Shell scripting.
* Maintained build related scripts developed in MAVEN and Shell. Modified build configuration files including MAVEN's POM.xml.
* Analyzed the builds using the SonarQube.
* Managed and monitored the server and network infrastructure using Nagios and Splunk.
* Work with development/testing, deployment, systems/infrastructure and project teams to ensure continuous operation of build and test systems.
* Provided end-user training for all GIT Hub users to effectively use the tool.
* Automate the builds and deployment of JAVA projects using MAVEN and Jenkins.
* Implement, maintain and support reliable, timely and reproducible builds for project teams.
* Interact with developers and Enterprise Configuration Management Team for changes to best practices and tools to eliminate non-efficient practices and bottlenecks.
* Created and maintained user accounts, roles on MySQL, production and staging servers.

***Environment:*** *CI/CD, AngularJS, AWS, Jira, Jenkins, Puppet, Docker, Apache, python, Nginx, MySQL, MAVEN, SVN, Nagios, SonarQube.*

**AGCO Corp- Atlanta, GA**

**Mar 2014 – Apr 2015**

**DevOps Engineer**

AGCO Corporation is a manufacturer and distributor of agricultural equipment and related replacement parts around the world. The Company sells a range of agricultural equipment, including tractors, combines, self-propelled sprayers, hay tools, forage equipment, seeding and tillage, implements, and grain storage and protein production systems. Its segments include North America, South America, Europe/Africa/Middle East, and Asia/Pacific. As a DevOps engineer, I was involved in coordination of different teams, and developing, building and deploying the applications onto the respective environments in the AWS cloud space.

***Responsibilities:***

* Supported 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.
* Implemented AngularJS Validation to validate user inputs and to create user-friendly web application.
* Worked with different ASP.Net dependencies to put them into project on Json file and managed to load AngularJS controllers and services dynamically on-demand by functional module.
* Converted and automated builds using Maven and Ant. Scheduled automated nightly builds using Jenkins.
* Helped developers and other project teams to set views and environments.
* Created and applied Baselines and Labels for each Build Artifacts.
* Created UCM Projects, Development and Integration views for Development and Integration Streams.
* Chef to aid with our deployment process, and migrating in-house systems to Amazon Cloud Services.
* Automated provisioning of cloud infrastructure with Chef.
* Replaced existing manual deployment and management processes with Chef and AWS Ops Works stacks across 4 product platforms
* Created and maintained documentation of build and release processes and application configuration to comply with audit requirements and Industry best practices.
* Managed GIT and SVN as Source Control Systems
* Created Pre-operation and Post-operation triggers in UCM.
* Developed scripts using PERL, BASH and BATCH files for Automation of Activities and builds.
* Provided level one support for build troubleshooting and production issues.
* Responsible for the EBFs (Emergency Bug Fixes) to push them to different environments and monitor their status.
* Performed merges for each build from Development Branch to Integration Branch.
* Created the Release Management plan with the implementation schedule.
* Conducted Sanity Testing to verify for the right build is deployed.
* 24/7 on call support for emergency site maintenance and immediate build and install requests.
* Worked with the automated scripts for the Build and Deployment of the applications.
* Responsible for Build and Install Schedules using Unix Cron jobs.
* Maintained configuration files for each application for the purpose of build and install on different environments.

***Environment:*** *Java/J2ee, AngularJS, Eclipse, Chef, AWS (Amazon Web Services) Ant, Maven, Subversion, SVN, GIT, Python, Ruby, Nexus, Sonar, Jenkins, PERL, BASH, Solaris, UNIX.*

**Mayo Clinic - Rochester, MN**

**Aug 2013 to Feb 2014**

**Build and Release Developer**

Mayo Clinic Rochester is pioneer in Medical tourism. A part of the world-renowned Mayo Clinic, Mayo Clinic Rochester includes the actual clinic that houses Mayo's clinical laboratories, education activities, and research laboratories. Clinic patients who require hospital stays are cared for at Saint Marys Hospital, the Mayo Eugenio Litta Children's Hospital, or Rochester Methodist Hospital (together, the hospitals have more than 2,100 patient beds). The Mayo Clinic Rochester also operates a local hospice, a sports medicine center, and other community health programs. As a Sr. Build engineer, I worked to automate the deployments of their client databases on to different environments and checking their integrity in the environments.

***Responsibilities:***

* Participated in the release cycle of the product, which involved environments like Development, SIT, QA, UAT and Production
* Responsible for the building and deploying the artifacts into DEV, SIT and QA Environments
* Designed and implemented
* Secured cloud architecture based on Amazon Web Services. Leveraged AWS cloud services such as EC2; auto-scaling; and VPC (Virtual Private Cloud) to build secure, highly scalable and flexible systems that handled expected and unexpected load bursts, and are able to quickly evolve during development iterations.
* Implemented multiple high-performance MongoDB replica sets on EC2 with robust reliability.
* Fundamental mastery of the AWS cloud computing platform, and its many dimensions of scalability - including but not limited to: VPC (Virtual Private Cloud), EC2, load-balancing with ELB, messaging with SQS (and scalable non-AWS alternatives), auto-scaling architectures
* Used Subversion as version Control for maintaining the versions
* Created GIT configuration record for builds using derived objects generated during build audit process.
* Perform biweekly build cycle and testing processes.
* Used MAVEN to automate the build process
* Configured and automated the Jenkins Build jobs for Continuous Integration.
* Used Apache Tomcat as application server for deploying the artifacts
* Managed & performed environment related configuration changes as a part of deployment.
* Coordinated application releases with Development, DBA and Project Management teams.
* Coordinated Release effort amongst various teams (Integration, QA, Testing, and Business Analysis) in geographically separated environment
* Served as a partial administrator for UNIX machines for Dev Environments
* Attended the Minor/Major Event change control meetings to get necessary approvals for the deployment request
* Used Shell to automate build and deployment Process.
* Executed the DB Scripts (DML's), which have dependencies on the code on Oracle DB
* Documented the deployment process (Migration Doc) of code to production.
* Used JIRA as Issue Tracking Tool.

***Environment:*** *GIT, Maven, Nexus, Tomcat, UNIX & Perl scripts, Jira, Shell scripts, AWS, Jenkins, Cobertura, PMD, Remedy, find bugs, check style.*

**TMG Health - Jessup, PA**

**Jan 2012 – Jul 2013**

**Build and Release Engineer**

TMG Health is in the business of business process outsourcing (BPO). The company is a fast-growing provider of BPO services to health plans and insurers nationwide that need help with Medicare and Medicaid management. TMG Health provides both administrative services and computer-systems integration to help organizations deliver public health benefits to its enrollees. It offers billing, claims processing, data management, enrollment and eligibility processing, and support marketing services to more than 30 health plans nationwide. As a Build and Release Engineer, I was involved in maintain their SCM, and deployments to different environments.

***Responsibilities:***

* Involved for setting up of Subversion-SVN server, server maintenance, Client machines setup.
* Developed and maintained Standard Operating Procedures documents.
* Used Perl scripts for deploying code on multiple servers.
* Implemented Clear Case and Subversion branching and merging operations for Java Source Code.
* Performed regular builds and deployment of the packages for testing in different Environments (DEV, QA, CERT, UAT and PROD).
* Performed smoke tests to ensure the integrity of code deployment.
* Automated build scripts using Cruise Control with ANT, Maven and Shell Scripts.
* Installation of Application on production and Test server for the use of application development and configuration.
* Worked with product development to resolve build-related issues in all projects provided support for Application issues.
* Created the different QA environment Migration Release Notes and migrated it into the QA for testing the online Java code from Subversion.
* Created the new Migration Development Console for the online Migrations.
* Analyzed the Troubleshooting in QA, CERT, UAT and PROD environment issues and support the Production issues.
* Documented the policies and procedures for build, branching and labelling of ClearCase, Subversion and VSS, servers list, code merging, check in/checkout policies and Testing environments in Mindshare as a Web Application Support.

***Environment:*** *Java/J2EE Ant, Maven, Tomcat, JBoss, Jenkins, Clear Case, Subversion, JIRA, SVN, shell, UNIX, MS SQL Server, Cruise Control.*

**Hindustan Lever Ltd, Bangalore, India**

**Jan 2011 – Dec 2011**

**Linux Administrator**

**Responsibilities:**

* Installation of patches and packages using RPM and YUM in Red hat Linux.
* Created and modified application related objects, created Profiles, users, roles and maintained system security.
* Responsible for setting up cron jobs scripts on production servers.
* Developed a single page, mobile-first, cross-device/cross-browser web application for real-time location sharing utilizing AngularJS, JavaScript API.
* Installed and configured SAMBA server for Windows and Linux connectivity.
* Monitored System Activities like CPU, Memory, Disk and Swap space usage to avoid any performance issues.
* Responsible for writing/modifying scripts using sh, ksh, and bash for day-to- day administration.
* Modified Kernel parameters to improve the server performance in Linux.
* Creation of Logical volumes (LVM) for Linux operating systems.
* Installed and configured Apache / Tomcat web server.
* Involved in design, configuration, installation, implementation, management, maintain and support for the Corporate Linux servers RHEL 4x, 5.x, SLES 9, CENTOS 5.x.
* Coordinated with 24 x 7 on-call support personnel in debugging.
* Maintained proper documentation of all the activities carried out during the project
* Worked with DBA team for database performance issues, network related issues on Linux Servers.
* Maintained proper documentation of all the activities carried out during the project.
* Created and modified users and groups with SUDO permission.
* Installed and configured VNC server/client.

***Environment:*** *Red Hat Linux (RHEL 4/5), Logical Volume Manager, Global File System, Red Hat Cluster Servers, Oracle, MySQL, DNS, NIS, NFS, Apache, Tomcat.*