**Sujith Bobbu**

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**Professional Summary:**

* Highly motivated DevOps automation engineer & CI/CD (Continuous Integration/Continuous Deployment) engineer with around 5+ years of experience in working on DevOps/Agile operations process and as Developer around tools (Code review, unit test automation, Build & Release automation, Environment Management)
* Worked in many technical roles both in Linux and Windows environment for build/Release automation process in Web & cloud/server Environment using Java/J2EE/JEE Technology, AWS & open source technologies.
* Involved extensive work towards code compilation, packaging, building, debugging, automating, managing, tuning and deploying code across multiple environments and Linux Administration.
* Knowledge of Amazon EC2, S3, IAM, VPC, Load balancing, CloudFront, Route53, Databases and application services in the AWS cloud infrastructure.
* Configured Inbound/Outbound in AWS security groups according to the requirements.
* Configuration of AWS Elastic Load balancer and Auto Scaling and configuration of AWS RDS PostgreSQL Instances in Multi Availability Zone.
* Worked on Version control tools like **GIT, TFS** and **SVN**.
* Strong knowledge on source controller concepts like Branching, Merging and Tags.
* Setup code repositories and, managed plugins for Jenkins for scheduled automatic checkout of code.
* Set-up CI/CD pipelines with **Jenkins** and hands on experience in building freestyle projects, pipeline, multi branch pipeline Jobs through Jenkins file.
* Knowledge in load balancing and setting up load balancer and firewall rules in enterprise environment
* Experienced in authoring **pom.xml, build.xml** files performing releases with the **Maven**, **ANT** release plugin, and managing artifacts in sonatype **NEXUS**, **JFrog** artifactory.
* Experience with variety of databases including relational databases like Oracle, MySQL, MS-SQL and No-SQL database like Cassandra and knowledge on Big Data and Data Analytics using Hadoop.
* Competence in designing AWS cloud models for Infrastructure-as-a-Service (IAAS), Platform-as-a-Service (PAAS) and Software-as-a-Service (SAAS).
* Experience in Server infrastructure development on AWS Cloud.
* Experience designing and deploying container-based production clusters using **Docker**, **Kubernetes**, **Docker Swarm, OpenShift**.
* Experience in **Docker compose** to run and deploy multi container applications, **Docker Weave** for auto discovery.
* Deployed Docker containers through **Kubernetes** to manage the micro services using its nodes, ConfigMaps, selector, Services, Pods.
* Used **Atlassian** tools **JIRA**, **Confluence**, **Bitbucket**, **Bamboo** for defect management, team collaboration, source code management and continuous integration and deployment practices.
* Experience using **Ansible Tower** dashboard, role based access control, access to **Ansible** for deployments.
* Experience in working with **Ansible** Playbooks to automate various deployment tasks and working knowledge on Ansible Roles, Ansible inventory files and Ansible Galaxy.
* Responsible for building application full automation pipeline for deployment into AWS using Jenkins, Artifactory, Chef and Terraform.
* Written Templates for AWS infrastructure as code using Terraform to build staging and production environments.
* Knowledge in Server monitoring, capacity planning, application monitoring with the help of Nagios, Splunk, Cloud Watch, NewRelic, Elasticsearch, Kibana, AppDynamics etc.
* Utilized Cloud watch to monitor resources such as EC2, CPU memory, Amazon to design high availability applications on AWS across availability zones.
* Strong experience in server side experience on C# /.Net large code base with Distributed, Layered, Event driven, Publish-Subscribe, Service Oriented architectures
* Strong experience on Web application frameworks **HTML5, CSS3, JavaScript, Object Oriented JavaScript, JSON, JQuery,.**
* Experience in administration of **MS SQL** server in AWS cloud platform
* Experience with Application Life Cycle management tools like **JIRA**, **HPALM** and Pivotal-Tracker.
* Experience in all phases of SDLC including requirements analysis, design, and development and testing.
* Knowledge in installation, configuration and support of **Websphere**, **JBoss**, **Tomcat**, FTP and **Apache** Web server.
* AWS **Certified** **Developer** – Associate (DC09WRZ2DERE1BWV).
* Expertise in Scrum Methodologies such as **Agile** and **Waterfall** methods, software development lifecycle management, continuous integration, build and release management and managed environments.
* Strong interpersonal and communication skills in dealing with **Clients**.
* Highly motivated, proactive and quick learner of new technologies and able to work efficiently with minimum supervision.

**Technical Skills**

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| Build Tools | MAVEN, ANT |
| Bug Tracking Tools | JIRA, HP-ALM, confluence, IBM Clear Quest. |
| Version Control Tools | GIT, SVN, Team Foundation Server (TFS), |
| Automation container | Docker and kubernetes. |
| Continuous Integration | Jenkins/Hudson, bamboo |
| Continuous Deployment  | Ansible |
| Cloud services | Amazon Web Services (AWS), EC2, IAM, RDS, VPC, S3, ROUTE53, SNS, SQS, Cloud front, EBS, ELB, Cloud watch, Elastic beanstalk and Cloud trail. |
| Monitoring tools | Nagios, Splunk, Elasticsearch, sonarqube, cloud watch |
| Operating Systems | Linux (Ubuntu, Red Hat), Windows Variants. |
| Database Servers | Oracle 9i, 10g, MySQL 7.0, 6.5,RDBMS Oracle, SQL Server. |
| Web/Application Servers | WebLogic, Websphere, JBoss, Apache Server, Apache Tomcat. |
| Scripting Languages | Bash and Shell scripting, Perl, Python, YAML. |
| Languages | C, C++, .NET, Java/J2EE,PHP. |
| SDLC | Agile, Scrum, and Waterfall. |

**Certifications:**

 **AWS Certified Developer – Associate (DC09WRZ2DERE1BWV).**

**Project Experience:**

**CN Railways, Homewood, IL Mar 2018 – Till date**

**Role: DevOps Engineer**

* Created AWS cloud formation templates to create custom-sized VPC, subnets, EC2 instances, ELB and security groups. Managed other AWS Services like S3, IAM, Cloud Front, Cloud Watch, RDS, Kinesis, Lambda, Cluster, Route53, Cloud Trail
* Experience in configuring Amazon EC2 instances and launching the new instances with same configuration using **AMIs**.
* Provisioned EC2 instances of different types by creating security groups and managing EBS volumes
* Restricted user access permissions through **IAM** by creating roles, groups and there by attaching required Policies.
* Implemented and maintained the monitoring and alerting of production and corporate servers/storage using **AWS cloud watch**.
* Responsible for design and maintenance of the Subversion Repositories and the access control strategies.
* Created the branches in Subversion to implement the parallel development process to support quarterly releases.
* Merged release branches to the trunk after the production release and resolved the conflicts rise during the merge in Subversion.
* Responsible for maintaining and expanding AWS (Cloud Services) infrastructure using AWS Stack especially worked with database setup and maintenance on AWS EC2.
* Worked with the DB team and third-party services team to rectify the issues related to service calls and database collection.
* Implemented automation and integration for cloud and system infrastructure solutions using Python.
* Configuring and Networking of Virtual Private Cloud (VPC). Knowledge on writing Cloud Formation templates and deploying AWS resources for dev, test, staging and production.
* Working and supporting on continuous integration on Jenkins, maven, Git for Amazon EC2 deployment instances on cloud computing and store the build artifacts in S3 bucket deployment.
* Configuration of Ansible modules for AWS cloud deployment.
* Used **Nagios** for monitoring the backend servers and network infrastructure.
* Configured and managed source code using **Git** and resolved code merging conflicts in collaboration with application developers.
* Developing build and deployment scripts using **Maven** as build tools in Jenkins to move from one environment to other environments.
* Worked on setting up Splunk to capture and analyze data from various layers Load Balancers, Webservers and application servers.
* Used **Ansible** to manage Web applications, Environments configuration Files, Users, Mount points and Packages.
* Configured and provisioned **ELK stack** (Amazon Elasticsearch Service, Amazon **Kinesis**, and **Kibana**) using AWS Cloud Formation template to monitor Apache logs.
* Written Docker files to build custom Docker images and used Docker Hub, Docker registry to manage the images
* Worked on **Docker** Container snapshots, attaching to a running container, removing images, managing directory structures and managing containers.
* Generated Docker files to build docker images and leveraged docker containers in **Kubernetes**.
* Worked on Deployment Automation of all micro services to pull image from Private Docker registry and deploy to Kubernetes Cluster.
* Collaborated with development support teams to setup a continuous delivery environment with the use of Docker.

**Environment**: AWS (EC2, S3, IAM, ELB, Auto scaling, Cloud Formation), GIT, Jenkins, Maven, JIRA, Java, Docker, Ansible, Kubernetes

**Gannett Inc, Mc Lean, VA Jan 2017 – Feb 2018**

**Role: AWS/DevOps Engineer**

* Plan, deploy, monitor, and maintain Amazon AWS cloud infrastructure consisting of multiple EC2 nodes and VMWare Vm's as required in the environment.
* Worked on Multiple AWS instances, set the security groups, Elastic Load Balancer and AMIs, Auto scaling to design cost effective, fault tolerant and highly available systems.
* Installing applications on AWS EC2 instances and configuring storage on S3 buckets and creation of new snapshots and deletion of old snapshots in S3.
* Configured and deployed **GIT** repositories with branching, forks, tagging, merge requests, and notifications.
* Used Jenkins for Continuous Integration and deployment into **Tomcat** Application Server.
* Created **Jenkins** CI/CD pipelines for continuous build & deployment and integrated **Junit** and **SonarQube** plugins in Jenkins for automated testing and for Code quality check.
* Managed **Maven** plugins and written Maven Scripts to handle the dependencies
* Used Maven dependency management system to deploy snapshot and release artifacts to **Nexus** to share artifacts across project.
* Implemented Jenkins Master- slave mechanism by configuring EC2 instances as slaves
* Setting up cron schedules for backups and monitoring the production servers using Nagios.
* Worked on Ansible to configure the servers, deploy software, and orchestrate continuous deployments or zero downtime rolling updates.
* Experienced with event-driven and scheduled AWS Lambda functions to trigger various AWS resources.
* Setup and build AWS infrastructure various resources, VPC EC2, S3, IAM, EBS, Security Group and Auto Scaling, in Cloud Formation JSON templates.
* Configured the Ansible playbooks with Ansible Tower and wrote playbooks using **YAML.**
* Created **Ansible** **playbooks** to automatically install packages from a repository, to change the configuration of remotely configured machines and to deploy new builds.
* Experience in using Splunk for Log Analysis and integrate **Splunk** with AWS deployment using Ansible to collect data from all EC2 systems into Splunk.
* Strong understanding in writing the automation of processes using the **Shell script** with **Bash** and **Python**.
* Maintained JIRA for tracking and updating project defects and tasks.
* Used various plug-ins to extend the base functionality of Jenkins to deploy, integrate tests and display reports.
* Created automation and deployment templates for relational and nosql databases (standalone and RDS), including MSSQL, Mysql, MongoDB.
* Integrated Docker container-based test infrastructure to Jenkins CI test flow and set up build environment integrating with GIT and JIRA to trigger builds using WebHooks and Slave Machines.
* Worked with developers for resolving runtime failures, troubleshoot Build and Deployment issues with minimal downtime.

**Environment**: DevOps, GIT, Maven, Jenkins, AWS, Ansible, Apache Webserver, Linux, Tomcat, Nagios, Splunk, SonarQube, Nexus, JIRA.

## HCL Technologies, India Aug 2014 – July 2016

## Role: Software/System Engineer

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* Followed Agile Model and as a member of the Scrum team participated in daily standup meetings, project status meetings and iteration reviews.
* Part of the requirements analysis team and involved in the quick study activities.
* Involved in Test design activities including the documentation works, Requirement Specification (RS)/Implementation.
* Implementation of new requirements and enhancements of the system using C++ and JAVA
* Coding, Unit texting, Integration testing, Defect fixing and Check in code files using GIT.
* Hands on experience with back-end database testing using SQL queries to validate complex content-including Inner Joins, Outer Joins, unions etc.
* Testing the Application using Log information from simulator which includes developers Log and Application Log.
* Developed and implemented Software Release Management strategies for various applications according to the agile process.
* Implemented & maintained the branching and build/release strategies using Git.
* Used Jenkins for Automating Builds and deployed builds.
* Configured Git with **Jenkins** and schedule jobs using Poll SCM option and integrated the tools to automate code checkout process.
* Experience in writing ANT, Maven scripts and converted ANT projects to **Maven**
* Automate administration tasks through scripting and Job Scheduling using **CRON**.
* Performed tuning to increase the performance on deployed server.
* Worked on Shell scripts, Bash for regular and periodic jobs and for system administrator jobs.
* Installed and administered Artifactory repository to deploy the artifacts generated by Apache MAVEN and to store the dependent jars, which are used during the build.
* Performed various configurations which include networking and IP Tables, resolving hostnames, SSH keyless login.
* Deploy builds to production and work with the teams to identify and troubleshoot any issues.
* Handled day-to-day operations like managing file systems, performance monitoring, checking system logs and troubleshooting alerts.
* Provided technical support to developers with configuration issues. Defined and implemented issues, tasks, defects and change management processes using **JIRA** Ticketing System
* Source code repository management for multiple development and production support code streams.

**Environnent** : C++, Rational Rose, Sakura, Perl, Linux, Jenkins, Tomcat Apache Application Server, GIT, ANT/Maven, Nexus, JIRA.

**ATMECS Technologies, India Jan 2014 – Jun 2014**

**Role: Associate Software Engineer**

* Involve in gathering, analyzing and documenting business requirements, functional requirements and data

Specifications for application development.

* Implementation of desired requirements and enhancements of the system using VB.Net, Java and MySQL
* Prepared Test case document and Test procedure for the code level changes.
* Used SVN for Versioning of source code, repository Management, branching, tagging, and merging.
* Eclipse is used for development as IDE and used JUnit for unit testing and repeatable tests for the application.
* Export/Import in SQL Server, created tables, views and stored procedures.
* Responsible for writing detail design documents and class diagrams and sequence diagrams.
* Developed Unit test protocols using automation tool, Vector Cast
* Authoring of test cases from system requirement specifications document and peer reviewing of designed test cases.
* Boundary value analysis and range analysis testing on inbuilt modules.
* Testing the implemented requirements in simulator and verifying the results using log files.
* Executed test cases manually and handled defect management in HP ALM.
* Responsible for updating and maintaining the Quality Center for reporting and logging the defects found during functional and regression testing and follow up the bug life cycle.
* Part of System administration team for installation new servers and their appropriate services for various applications in Linux.
* Knowledge on Installation, maintenance, managing and regular upgrading of Red Hat Linux Servers Ubuntu Trust, CentOS, Fedora, Linux on both standalone and virtual environments.
* Domain and Technical mentor for new associates in the team.
* Change requests – Analyze, Build and Implement.
* Preparation of low level technical document as per the client specifications.

**Environment:** MySQL, VB.Net, SVN, HP ALM, UNIX, Red Hat, DNS, Yum, Rpm, Ubuntu, Centos, Apache, Tomcat, Oracle,

Shell, Bash, Python.

**Education /Certification:**

* Master’s in Information Systems from Central Michigan University – MI.
* Bachelors in Engineering and Technology – India.