# Ramesh Mallarapu

# [Ram0659@gmail.com](mailto:Ram0659@gmail.com)

# PH: 945-257-7260

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A skillful professional with 12 years of IT experience, 9 years as a DevOps/Cloud Engineer. Strongly developed skills in software configuration management including Project Setup, Build and Release process setup, Build Automation, Continuous Integration, AWS, and DevOps. Seasoned interpersonal skills, strong work ethic, and ability to stay organized within fast-paced and multidisciplinary organizations.

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| --- | --- | --- |
| * Continuous Integration | * Continuous Delivery | * Containerization |
| * Release Management | * Agile / Scrum / Kanban | * Release Management |
| * Automation | * Amazon Web Services | * Scripting |

**TECHNICAL BACKGROUND:**

**IT Delivery Methods :** Agile, Waterfall

**Scripting Languages :** Shell, Perl, Python, Ruby, Groovy, JavaScript

**Version Control Tools :** Git, SVN

**Application Servers :** Tomcat

**Continuous Integration Tools :** Jenkins

**Continuous Deployment Tools :** Chef, Ansible

**Containers :** Kubernetes, Docker

**Cloud Computing Services :** Amazon Web Services (AWS), AZURE

**Databases :** MySQL, Oracle

**Project Management Tools :** JIRA, MS Project, Confluence, Slack, HPSM, VersionOne

**Operating System :** Linux, MacOS, Microsoft Windows

**Monitoring Tools :** Splunk, DataDog, ELK, AppDynamics, CloudWatch

**Security Tools :** OWASP ZAP, Qualys, Veracode, SonarQube

**EDUCATION:**

**MS Engineering Management from International Technological University 2015.**

**Professional Experience:**

# Wells Fargo, San Francisco, CA March 2019 to till date.

**Cloud / Site Reliability Engineer:**

* Provided 24x7 on-call supports in debugging and fixing issues related to Linux, Solaris,
* HP-UX Installation/Maintenance of Hardware/Software in Production, Development &amp;
* Test Environment as an integral part of the Unix/Linux (RHEL/SUSE/SOLARIS/HP- UX/AIX) Support team.
* Responsible for maintenance of source control systems Subversion and GIT.
* Createdrepositories according to the structure required with branches, tags and trunks.
* Created hooks and managed permissions on the branches for GIT.
* Responsible for designing and deploying best SCM processes and procedures.
* Installed and configured SSH server on red hat/Cent OS Linux environments.
* Created and maintained several build definitions and publish profiles to handle automated builds in an Agile / SCRUM environment.
* Attended sprint planning sessions and daily sprint stand-up meetings. Configured application servers (JBOSS) to deploy the code.
* Used Apache Tomcat as application server for deploying the artifacts.
* Installed, administered, and configured Jenkins/Bamboo Continuous Integration tool.
* Used Ant, Maven to perform daily and weekly Software Builds.
* Helped developers and other project teams to set views and environments.
* Replicated the Jenkins build server to a test VM using Packer, Virtual Box, Vagrant, Chef, Perl brew and Server spec.
* Wrote shell scripts for automated installations to extract logs.
* Developed Cron jobs and Shell Scripts (Shell, Python) for automating administration.
* tasks like file system management, process management, backup and restore.
* Used ANT and MAVEN as build tools on Java projects for the development of build artifacts on the source code.
* Analyze and resolve compilation and deployment errors related to code development,
* branching, merging and building of source code.
* Using Chef and AWS allowed me to reduce costs for the department and eliminate unwarranted resources. Automated provisioning of cloud infrastructure with Chef.
* 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 workflow tool.
* Environment: SVN, GIT, ANT, MAVEN, Chef, Windows/Linux, C#, Jenkins, JIRA AWS, JBOSS,
* Deployed and configured Datadog monitoring and analytics platform to track the health and performance of applications].
* Created custom dashboards and alerts in Datadog to provide real-time insights into system performance, application metrics, and business KPIs.
* Apache Tomcat, VM ware, Virtual Box, Perl Scripts, Shell Scripts, Unix/ Linux environment.
* Designed and developed custom Splunk queries, alerts, and dashboards to provide real-time insights into system and application performance.
* Collaborated with cybersecurity teams to set up Splunk for security information and event management (SIEM), improving threat detection and incident response.

**Kaiser Permanente, Oakland CA. Aug’2018 to March’2019**

**DevOps Engineer**

**Responsibilities:**

* Build the development, staging and production software environments and their infrastructure.
* Continuously look to improve the scalability of the build, release, and deployment processes and operation.
* Used ANT and Python scripts to automate the Build and deployment process to deploying the web services.
* Establish and maintain cross-team communication for release plans and policies.
* Coordinate and support project branches merging process with source code control.
* Creation and maintenance of Jenkins jobs
* Investigation of issues found in the production environment. Apache Tomcat configuration and support for other teams within IT.
* Starting a **Release** and Software Configuration Management process including setting up and implementing branching, checkin, **build** and deployment process.
* Develop the automated **build** and deployment using ant and Hudson/Jenkins using tomcat as the application server.
* Written several cookbooks consisting of 10’s of recipes to perform Installation and configuration tasks involving jdk, tomcat, WebLogic binaries installation and domain creations for our test environment.
* Managed Amazon EC2 instances with the help of chef
* Performed a POC for AWS code deploy services pushing artifacts into S3 and performing deployments onto on Demand instances created on the fly.
* Integrated Amazon Cloud Watch with Amazon EC2 instances for monitoring the log files, store them and track metrics.
* Created AWS S3 buckets, performed folder management in each bucket, Managed cloud trail logs and objects within each bucket.
* Created various roles & environments, written custom resources, and used Chef handlers for various auto kick-off requirement jobs.
* Integrated Ant and Maven with Jenkins in order to run to automate the build process as a part of continuous delivery.
* Created and managed multiple Instances of Apache Tomcat and deployed several test applications in those instances in QA environment.
* Develop automated deployment scripts using Ant and python to deploy war files, properties file and database changes to development server or QA server and Staging/Production server.
* Develop automated rollback deployment on Staging/Production server. Purpose is to undo previous deployment in database, properties files and war files changes.
* Participated in DevOps pilot program to test hosted chef implementation to accommodate server provisioning and automate middleware installation activities.
* Written several chef cookbook and recipes to automate the installation of WebLogic domain and JDK installations and have customized recipes from chef supermarket to align with current requirements.
* Created various roles & environments, written custom resources and used chef handlers for various auto kick-off requirement jobs.
* Integrated Ant and Maven with Jenkins in order to run to automate the build process as a part of continuous delivery.
* Created and managed multiple Instances of Apache Tomcat and deployed several test applications in those instances in QA environment. Develop automated rollback deployment on Staging/Production server. Purpose is to undo previous deployment in database, properties files and war files changes.

In addition to that I have a very intimate knowledge about the whole release and **build** processes from software development till its **release** to the end client (whether it is in retail, enterprise market or web services), plus planning and anticipation of what required from a Configuration Management **Engineer.**

**Environmen**t: SVN, Jenkins, Java/J2EE, ANT, MAVEN, GIT, OpenStack, Amazon EC2, Amazon Web Services, Chef, Perl Scripts, Docker, Shell Scripts, Sonar, UNIX, JIRA, Tomcat

# Apple, Cupertino, CA Jan 2018 to August 2018

**Release Engineer/SRE**

Apple Recruitment System

Apple Recruitment System (Apple Talent Point) is an interactive workflow management to handle the process of talent recruitment and posting requisitions to job boards. Extensive search platform provides simplified solution to lookup into millions of records very quick and exact record and document management helps to keep track of all documents of various entities. An elegant activity tracker helps to track all user activities. This system has three products.

#1. Job Site

This is external facing application where a talent can search and apply for a job by using various filters. This website is available in multiple countries in their own languages and fully rendered from server side.

Tech Stack: ReactJS, NodeJS, Java, Elastic search, mongo DB, HTML and SCSS.

#2. Talent Point

This is an internal workflow management application which helps recruiters and admins to track the process of hiring from creating a talent record to granting an offer for a talent.

Tech Stack: AngularJS, NodeJS, Java, Elastic search, mongo DB, HTML and SCSS.

#3. RSVP

This is an event management system that tracks the apple store job events.

Tech Stack: AngularJS, NodeJS, Java, Elastic search, mongo DB, HTML and SCSS.

* + - * Worked as an active team member for both product development and the operations teams to provide the best DevOpsPractices and supported their applications with feasible approaches.
      * Creating Jenkins jobs to create AWS infrastructure from Git repos containing Terraform code. Implementing & Working on Terraform scripts to create Infrastructure on AWS/Azure.
      * Experience in Amazon Cloud Services (AWS) creating features like EC2, IAM, VPC, EBS, AMI, APIs, Route 53, snapshots, Autoscaling, Cloud watch, CloudTrail, CloudFront, SQS, SNS, RDS, CloudWatch, S3, API Gateways, Autoscaling, ALB, NLB, Lambda, Security groups using Terraform.
      * Create and manage S3 buckets, enable logging in S3 bucket to track the request, who is accessing the data and enable versioning in S3 bucket and restore the deleted file by creating IAM roles.
      * Create & Utilize Cloud Watch to monitor resources such as EC2, CPU memory, Amazon RDS DB services, Dynamo tables, EBS volumes, Lambda Functions. Encrypting the EBS volumes to make sure the data in rest is secured and protected.
      * Implemented a server less architecture using Lambda and deployed AWS Lambda code from Amazon S3 buckets. Created a Lambda Deployment function and configured it to receive events from your S3 bucket using cloud watch events.
      * Coordinate/assist developers with establishing and applying appropriate branching, labeling/naming conventions using GIT source control and analyze and resolve conflicts related to merging of source code for GIT.
      * Experience in Building the artifacts from Git generated by Maven/Gradle and upload to Nexus and Jfrog Artifactory Repository and deploy to higher environments using Jenkins files/Jenkins.
      * Wrote Shell and Groovy scripts in Jenkins to automate entire CI/CD pipeline from development to deployment for every environment and written Ansible playbooks for continuous deployments.
      * Used Ansible to automate deployment workflow of Java, Dot Net applications on Apache Tomcat, Apache, JBoss, Liberty, WebSphere, WebLogic, IIS by usage of scripting languages shell, python, PowerShell, groovy.
      * Manual and Automated Installation and configuration of App Servers and Web Servers using Jenkins and Ansible.
      * Implemented Integration and automated deployment projects for Java Builds, Dot Net Builds and Vendor based components. Ensure build, deployments, and releases according to Comerica standards with the help of security and change management team.
      * Working on Docker on Linux installs as well as cloud providers. Creating Docker Image On one hand I can spin a container and build it interactively.
      * Container management using Docker by writing Docker Files and set up the automated build and deployments and installed and configured using Jenkins and Jenkins files.
      * Building/Maintaining Docker images managed by Jfrog artifactory used for Linux/Windows on AWS and Onprem utilized for the runtime environment of the CI/CD system to build, test, deploy.

# Citrix Systems Inc, Fort Lauderdale, FL June 2015 to Nov 2017

# Site Reliability Engineer

* Worked as a team to implement CICD with Chef using AWS Cloud Formation Templates. Responsible for implementing and managing release processes for the progression of software code in the development, test, and production environments and working with Agile Scrum environment.
* Implementing continuous integration system using Git, Maven, Gradle, Jenkins, Ansible, Artifactory full automation, Continuous Integration, faster and flawless deployments.
* Configured and maintained Jenkins to implement the CI process and integrated the tool with Gradle and Maven to schedule the builds.
* Implemented the setup for Master slave architecture to improve the Performance of Jenkins by creating multiple nodes on Windows/Linux and cloud.
* Leverage Ansible Configuration management system in creating playbooks to develop automation and monitoring across web application life cycle management.
* Configuration of Jenkins, Identifying and Installing required plug-ins to Jenkins, integrating external Unix servers, adding nodes/Slaves to Jenkins, writing scripts to configure build jobs, Build Pipelines, set up of automated Gerrit Verification Process of in Jenkins.
* Implementing Continuous Delivery setup to created packages from Jenkins and to be deployed to Applications servers with Ansible as configuration management tool.
* Implementing and Facilitate adoption of the DevOps Tools, Responsible for the Build and Deployment of artifacts into DEV, QA, and PROD, DR environments in Agile continuous integration process.
* Knowledge with many AWS services like Ec2(Linux & windows), RDS, S3, Lambda, CloudWatch Schedulers, API Gateways, Autoscaling, ELB, ALB, NLB, R53, VPC, Security groups.
* Deploying Artifacts on Test and Production environment using Shell and Power Shell with the help of Ansible/Jenkins files.
* Creating Jenkins jobs for build, deployments and creating Git repos for source code and setup branching & tagging strategy to maintain the source code in the GIT repository.
* Used Gradle and Maven as build tools Testing the application manually and run the Junit Test suites, selenium test cases wrote Gradle and Maven Scripts to automate the build process.
* Configured Jenkins jobs to automate build process for Java and Dot Net projects for the development of build artifacts from the source code.
* Create artifacts and execute unit tests as part of the build process and integrated build process with Sonar for code quality analysis.

# CapGemini, Pune, India Oct 2010– Dec’12

# Associate Consultant

**DevOps/TestinEngineer**

**Responsibilities:**

* Worked with client teams to understand the client deployment requests and coordinated with operations team for deploying various applications, troubleshooting. Build manage and continually improved the build infrastructure for global software development engineering teams including implementation of build scripts.
* Designed Puppet Modules to manage configurations and automate installation process.
* Worked on creation of puppet manifest files to install tomcat instances and to manage configuration files for multiple applications.
* Good experience in using Puppet, which helps in site-redundancy and Release Management activities for large Enterprise Applications.
* Implemented CI/CD with Puppet using cloud formation template.
* Integrated Maven with Jenkins for the builds as the continuous integration process.
* Implemented CI/CD setup to create packages from Jenkins and to be deployed to another applications.
* Manage all aspects of the end-to-end Build/Release/Deployment process for multi-Projects.
* Manage oversees multiple releases to Daily/weekly/bi-weekly/monthly.
* Setup Business Analysis calls with client for various Production releases information sharing.
* Managing project initiatives, prioritize and manage production support events by coordinating production fixes with various technology partners.
* Support all levels of administration for Version control tools.

**Environmen**t: SVN, Jenkins, Java/J2EE, ANT, MAVEN, GIT, OpenStack, Amazon EC2, Amazon Web Services, Chef, Perl Scripts, Docker, Shell Scripts, Sonar, UNIX, JIRA, Tomcat