**Gururaj Madhuranath **

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**Professional Summary:**

* Experienced in the IT industry, worked with a variety of platforms including SCM Continuous Integration and Continuous Development along with Build and Release Management.
* Extensive experience as a **DevOpsEngineer**.
* Skilled at Software Development Life Cycles (**SDLC**) and Agile Programming methodologies.
* Ability to accomplish all aspects of the Software Configuration Management (SCM) process, **DevOps** and **Build/Release** management
* Extensive experience in **Linux**/**Unix** system Administration, System Builds, Server Builds, Installations, Upgrades, Tuning, Migration.
* Ability to manage SCM processes which include compiling, packaging, deploying and application configurations.
* Experience in working on source controller tools like **GitHub** (**GIT**), Subversion (SVN).
* Strong experience creating **ANT**/ **MAVEN** with **Puppet** builds script for deployment artifacts.
* Good experience in converting build.xml into pom.xml to build the applications using **MAVEN**.
* Expertise in Application Deployments & Environment configuration using **Chef**, **Puppet**
* Worked on **Puppet** for the deployment of servers with custom scripts.
* Responsible for administering Big Data technologies - Cassandra, Kafka, Storm.
* Took Part in **DevOps** pilot program and was trained in **DevOps** methodologies, tools like **Puppet**, **Ansible**. **GIT** repositories for projects **Java**Script testing frameworks
* Worked with multiple **DevOps** methodologies and tools Continuous Integration (CI) / Continuous Delivery tools (Jenkins) Infrastructure.
* Development experience with Big Data, AWS, Apache Spark, Python, Cassandra NoSQL, Scala, Shell scripting, AWS, DevOps, BI reporting.
* Strong experience utilizing **Jenkins** for enterprise scale infrastructure configuration and application deployments
* Experience with various MVC Java frameworks like **AngularJS**etc. for **GUI Development.**
* Experience writing **angular.js** code for developing Single page applications (SPA), used several in built language core directives, expressions and modules.
* Extensive experience with **AngularJS,** creating custom directives, decorators, and services to interface with both restful and legacy network services also DOM applications.
* Extensive experience on modern front-end template frameworks for JavaScript including Bootstrap, JQuery**, AngularJS** etc.
* Experience in **AWS** Cloud platform and its features which includes EC2, VPC, EBS, AMI, EBS, Cloud Watch, VPN Servers.
* Experienced installing and configuring Web Servers including Tomcat and Apache Web Server
* Strong knowledge of DNS, DHCP and IP Addressing.
* Experience in configuration of DNS, DHCP, STP, VTP, VRRP, VLAN, SSH, EIGRP, OSPF, NAT, ACL’s, postfix, send mail, FTP, remote access, security management and Security trouble shooting skills.
* Experienced in implementing and maintaining an Apache Tomcat /MySQL/PHP, LDAP, LAMP web service environment.
* Good experience with Managing and monitoring the server and network infrastructure using Nagios.
* Expertise in provisioning tools such as Vagrant and integrate it with **AWS**, Rackspace, and Other hypervisors.
* Expertise in scripting for automation, and monitoring using Shell, PHP,Bash,Python, Ruby& Perl scripts, configuration management tools like **Chef**, **Puppet** and Web Service like **AWS**
* Good understanding of **OSI Model**, **TCP/IP protocol suite** (IP, ARP, TCP, UDP, SMTP, FTP, and TFTP)
* Experience in implementing and making teams adapt to Release/Change Management Process
* Experience in Installing Firmware Upgrades, kernel patches, systems configuration, performance tuning on **Unix**/**Linux** systems.
* Independent problem solving and a good team player with strong interpersonal and communication skills.

**Certifications:**

**Cisco Certified Network Associate (Routing and Switching) Aug 2015**

**Cisco ID: CSCO1285075**

**CompTIA Linux+ Certified Sep 2016**

**AWS Certified Solutions Architect – Associate Nov 2016**

**Technical Skills:**

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| **Operating Systems** | **Windows 2008R2, 2012, 7,8.1, 10, Ubuntu 12/14, Cent OS 4/5/6/7, Cisco IOS** |
| **Web/ Application Server** | **Apache Tomcat, Oracle, IIS, Nginx** |
| **Containerization and Search Engine** | **Docker, Elastic Search, Kubernetes, Vagrant** |
| **Continuous Integration/ Configuration Tools** | **Puppet, Chef, Ansible, ANT, MAVEN, GitHub, Jenkins** |
| **Databases** | **MySQL, Oracle 9i/10g/11g, NoSQL DB(MongoDB)** |
| **Monitoring and Testing** | **Nagios, Sonar Cube, Cobectura, JUnit** |
| **Languages** | **C, C++, Java, HTML, CSS, JavaScript, PHP, Perl, PowerShell, Python.** |
| **Version Control Tools:** | **CVS, SVN, GIT,GitHub** |
| **Protocols** | **TCP/IP, UDP, IPv4/v6, RIP, OSPF, EIGRP, ICMP, ARP, HSRP, STP, RSTP, NAT, VLAN, DHCP, ACL, VRRP, VTP.** |

**Professional Experience**

**Rockwell Automation, Wisconsin, Milwaukee Jun2016 –Present**

**Cloud/DevOps Engineer**

* Responsible for building out and improving the reliability and performance of cloud applications and cloud infrastructure deployed on Amazon Web Services
* Support current migration of Data Center to Amazon Cloud.
* Worked with cross functional teams to design and develop a Big Data platform.
* Configured S3 versioning and lifecycle policies to backup files and used AWS Glacier to archive files. Also, used IAM to manage new accounts, roles and groups.
* Manage AWS EC2 instances utilizing Auto Scaling, Elastic Load Balancing and Glacier for our QA and UAT environments as well as infrastructure servers for GitHub and Chef
* Develop and configure Docker images for our private Docker repository.
* Implemented and maintained the monitoring and alerting of production and corporate servers/storage using AWS Cloud watch
* AWS CLI Auto Scaling and Cloud Watch Monitoring creation and update
* Experience writing angular.js code for developing Single page applications (SPA), used several in built language core directives, expressions and modules.
* Extensive experience with AngularJS, creating custom directives, decorators, and services to interface with both restful and legacy network services also DOM applications.
* Extensive experience on modern front-end template frameworks for JavaScript including Bootstrap, JQuery, AngularJS etc. including GUI Development.
* Managed servers on the Amazon Web Services (AWS) platform instances using Puppet, Chef Configuration management
* Redesigned infrastructure for high availability using multiple AWS availability zones
* Installed Workstation, Bootstrapped Nodes, Wrote Recipes and Cookbooks and uploaded them to Chef-server, Managed On-site OS/Applications/Services/Packages using Chef as well as AWS for EC2/S3&ELB with Chef Cookbooks
* Create Chef Automation tools and builds, and do an overall process improvement to any manual processes
* Written Chef Cookbooks for various DB configurations to modularize and optimize end- product configuration
* Developed Big Data Solutions that enabled the business and technology teams to make data-driven decisions on the best ways to acquire customers and provide them business solutions.
* AWS server provisioning using Chef Recipes
* Design and deploy pure AWS environments as well as hybrid architectures.

**Environment:** AWS, IAM, S3, AWS cloud watch, Nginx, ANT, MAVEN, SVN, GitHub, Chef, Puppet, Ansible, Docker, Java, Apache HTTPD, Bash, Shell, Perl, Python, PHP.

**Capital one, Richmond, VA Jun2015 – May 2016**

**DevOps Engineer**

* Defined and Implemented CM and Release Management Processes, Policies and Procedures.
* Deploy and monitor scalable infrastructure on Amazon web services (AWS) & configuration management using Puppet.
* Expertise in installing, configuration and administration of Tomcat. Understanding of cloud based deployments into Amazon EC2 with Puppet.
* Setup and Configuration of Chef Configuration Management. Subversion administration for taking the builds using Chef Management.
* Experience in managing virtual instances and disks using Puppet. Deployed Chef Dashboard for configuration management to existing infrastructure.
* Experience in AWS Network administration, AWS instance monitoring, troubleshooting, deployment optimization, root cause analysis and preparing documentation.
* Worked on Big Data environment along with exposure to Spark, Cassandra, SQL and ETL components.
* Designed Chef Modules to manage configurations and automate installation process.
* Coordinate/assist developers with establishing and applying appropriate branching, merging conventions using GIT source control.
* Using Configuration Management Tools like chef for automation of infrastructure related components and applications like Tomcat/Apache/LDAP/zookeeper, SSH, NTP and DNS configurations.
* Configured and maintained Jenkins to implement the CI process and integrated the tool with ANT and MAVEN to schedule the builds.
* Enabled Continuous Delivery through Deployment into several environments of Test, QA, Stress and Production using Jenkins.
* Installing Jenkins on Linux machine to create a master-slave configuration and implementing multiple parallel builds through build farm.
* Accountable for evaluating and recommending all Big Data technologies solution sets from leading industry technologies and solution offerings.
* Accomplished builds and deploys in Dev, testing, QA and staging by Creating ANT, Perl,PowerShell&UNIX scripts
* Extensive experience with AngularJS, creating custom directives, decorators, and services to interface for restful applications and or GUI Development.
* Extensive experience on modern front-end template frameworks for JavaScript including AngularJS etc.
* Used AWS Ansible Python Script to generate inventory and push the deployments.
* Deployed a static website on AWS S3 and monitored the resources using Cloud Watch.
* Designed and presented Container based delivery utilizing modern cutting-edge technologies such as Docker and Kubernetes.
* Good understanding of the Cloud Watch metrics like Latency, Replica Lag, Disk Volume Connections, Disk I/O, Queue Connections, Network I/O.
* Creating snapshots and amazon machine images (AMIs) of the instances for backup and creating clone instances.
* Managing users and groups using the amazon Identity and access management (IAM).
* Used MAVEN dependency management system to deploy snapshot and release artifacts to Nexus to share artifacts across projects and environments.
* Hands on experience in automating builds and deployment process using Shell scripting.
* Maintained build related scripts developed in ANT and Shell. Modified build configuration files including ANT's build.xml.
* Analyzed the builds using the SonarQube.
* Managed and monitored the server and network infrastructure using Nagios.
* 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 GitHub users to effectively use the tool.
* Automate the builds and deployment of JAVA projects using ANT 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, AWS, Jenkins, Chef, Docker, Apache, Python, Nginx, MySQL, ANT, SVN, Nagios, Ruby, SonarQube, Nexus Arti factory.

**Marathon Oil and Gas, Houston, TX Jan 2015 – May 2015**

**Build & Release Engineer**

* Release Engineer for a team that involved different development teams and multiple simultaneous software releases.
* Developed and implemented Software Release Management strategies for various applications per the agile process.
* Participated in implementing Branching and merging strategies. Performed merges between different branches, and resolved all merge conflicts successfully by working with development teams.
* Managing virtual machines using VMware ESXi, AWS
* Participated in weekly release meetings with Technology stakeholders to identify and mitigate potential risks associated with the releases.
* Imported and managed multiple corporate applications into Subversion (SVN).
* 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
* Written Make, MAVEN and ANT build tools for application layer modules.
* Developed build and deployment scripts using MAVEN as build tools in Jenkins to move from one environment to other environments.
* 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 Tomcat web application servers.
* Developed Perl and shell scripts for automation of the build and release process.
* Involved in editing the existing ANT/MAVEN files in case of errors or changes in the project requirements.
* Perform periodic system audits on all environments to ensure that only controlled versions of software reside all environments.
* Responsible for the development and maintenance of processes and associated scripts/tools for automated build, testing and deployment of the products to various developments.
* Managed MAVEN project dependencies by creating parent-child relationships between projects.
* Installed/Configured/Managed Jenkins CI Automation.
* Setup the builds scripts to generate reports for JUNIT Tests results, Cobertura Code Coverage results.
* Responsible for the Plugin Management, User Management, Build/Deploy Pipeline Setup and End-End Job Setup of all the projects.
* Jenkins is used as a continuous integration tool for automation of daily process.
* Installed/Configured and Managed Nexus Repository Manager and all the Repositories.
* Created the Release process of the artifacts.

**Environment:** Subversion (SVN), Jenkins, Java/J2EE, ANT, MAVEN, CHEF, Tomcat, Perl Scripts, PowerShell Scripts,Shell Scripts, XML, UNIX, Windows 7, Nexus Repository, Cent OS 7

**Cigital- Banguluru, India Sep 11 –Jul 2014**

**Linux System Administrator**

* Installed, upgraded and configured Ubuntu 12/14 and Cent OS 5/6/7
* Configuration and administration of DNS, LDAP, NFS on Linux Machines.
* Created local repository in yum.repos.d to run packages using yum, rpm and up2date.
* Configured and managed SELinux (Linux Firewalls) and allowed appropriate ports with help of iptables.
* Installed and configured DHCP server in Linux to give IP leases to production servers.
* Management of Linux user accounts, groups, directories and file permissions.
* Configured, managed ESX VM's with virtual centre and VI client.
* Performed Kernel tuning with the sysctl and installed packages with yum and rpm.
* Performed Disk management with the help of LVM (Logical Volume Manager).
* Configuration and Administration of Apache Web Server and SSL.
* Backup management using CRONTAB, running the backup based on client requirements.
* Password-less setup and agent-forwarding done for SSH login using ssh-keygen tool.
* Established and maintained network users, user environment, directories, and security.
* Documented testing procedures and steps involved in data migration on production servers.
* Provided 24/7 on call support on Linux Production Servers.
* Responsible for maintaining security on Linux machines.
* Installed and configured the RPM packages using the YUM Software manager
* Production support of Apache, PHP, My SQL, Tomcat including installation, configuration, management and troubleshooting
* Involved in developing custom scripts using Shell (bash, ksh) to automate jobs.
* Merged the generated reports as per request. Formatted data into required format using UNIX Shell Scripts, PowerShell Scripts, SED and Awk.
* Networking communication skills and protocols such as TCP/IP, Telnet, FTP, SSH, rlogin.
* Network Administration of large group of systems & network Linux, Windows Servers, Modems, Routers and Switches.

**Environment:** Ubuntu 12/14, Cent OS 5/6/7, DNS, LDAP, NFS, Active Directory, DHCP, FTP, SSH, Apache, PHP, MySQL, Shell scripting and PowerShell scripting.