**CURRICULUM VITAE**

**C.R. SHANMUGASUNDARAM**

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**Profile Summary:**

5.5 years of experience in **Software** **Configuration Build & Release Management and Open Source R&D,** in IT industries. I have gained good knowledge of Tools administration on **Collabnet Subversion, Collabnet Subversion Edge(SVN), Serena Dimension CM, Serena version manager (PVCS), GIT and Rational Team Concert (RTC) for change and Configuration Management and Continuous Integration Jenkins and HUDSON.** Learning **Python Script to automate the build systems**. Seeking a position to utilize my skills and abilities in the Information Technology Industry that offers professional growth while being resourceful, innovative and flexible.

**Educational Experience**

* B.E Electronics and Communication Eng. from Sakthi Engineering college with 75.00%
* MBA – SYSTEM MANAGEMENT in Madras University-Chennai

**Technical Skills:**

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| **Operating Systems** | **Windows XP, Windows 7, Windows server 2003, Windows server 2008 and Linux (REDHAT, CENTOS and Ubuntu)** |
| **Source Control Management Tools** | **RTC(CCM), Serena PVCS, Serena Dimension CM, Collabnet Subversion(SVN), Collabnet Subversion Edge, GIT and ClearCase** |
| **Change/ Bug Management** | **RTC** |
| **Continuous Integration** | **Jenkins or Hudson** |
| **Configuration Management Tool** | **Ansible** |
| **Code Review Tool** | **Gerrit** |
| **Static Code Analysis** | **SonarQube** |

**Work Experience:**

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| --- | --- | --- | --- |
| **Employer** | **From** | **To** | **Designation** |
| **HCL Technologies** | **31-March-2016** | **Till Present** | **SCM-Devops Engineer** |
| Tata Consultancy Services | 29-July-2015 | 25-March-2016 | Systems Engineer |
| Cognizant Technologies Solutions | 25-Feb-2015 | 24-July-2015 | Senior System Executive |
| HCL Technologies Ltd | 17-Jan-13 | 20-Feb-2015 | Software Engineer |

**Professional Experience:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Client** | **Tools used** | **OS** | **Designation** |
| KLA-TENCOR | GIT & Gerrit, SVN, JENKINS, RTC, SONARQUBE and Ansible | WINDOWS/LINUX | SCM**-**Devops Engineer |
| VISTEON | GIT, RTC, SVN, JENKINS, PVCS, SBM and Dimensions | WINDOWS/LINUX | Build & Release Engineer |
| AVON | GIT, RTC, SVN and JENKINS | WINDOWS/LINUX | Build & Release Engineer |
| Tools Group | GIT, RTC, SVN, JENKINS, PVCS, Dimension and Gerrit | WINDOWS/LINUX | SCM-Devops Engineer |

**Source Control, Build & Release Management:**

* Working on Source control, Build and release process.
* Planning the new features, requirements and creating the work item using Rational team concert or Jira.
* Once Planning is done, we will assign the task’s to the project team and Developer’s will start to develop the code and deliver the code common repository by using GIT, SVN, RTC.
* After deliver the code, we need to analysis the code using static code analyzer- SONARQUBE
* Once Development is done, we need to build the software and package needs to be created. (Java-Ant, Maven and for C and C++ - MS Build)
* Once Build Package is created it needs to be tested and deployed into Test or Production server(Ansible).
* Automated the process by using Jenkins for continues integration.

**IBM-RTC (Rational Team Concert)**

* Setup and Administration of RTC (Windows)
* Responsible for creation of user accounts using LDAP, User archival, License assigning
* Creation of Projects and setting policies in Rational Team Concert, Creation of Team areas.
* Handling Integrations with Rational Team Concert (LDAP)
* Creation of Dashboards in RTC web client.
* Evaluation of source control aspects and build in Rational Team Concert
* Creation of Streams and components.
* Setting up of Stream locks if required.
* Installing of builds using Rational Team Concert in test environments
* Administering and maintaining of source code repositories stored within the software configuration management tools which is Rational Team Concert
* Managing RTC Eclipse client issues like handling Work item issues, Source control issues, roles & privileges, Work item customization, Releases, BIRT Reports, Dashboards etc.
* Individually have capable of handling issues in RTC eclipse client, application server and configurations.
* Source code management in Rational Team Concert
* Creating Build Engine
* Customize the work item as per the needs
* Creating Timelines, iterations and releases
* Migrating source code from ClearCase to RTC with history
* Migrating the components from one server to another
* Merging across the stream.
* Working on Perl Scripts for build as per the requirements.
* Creating Snapshot and Baselines
* Migrating the Work Item one CCM to another (Import and Export)
* Creating Dashboards
* Working Command line Interface

**GIT:**

* Setup a GIT server(Gitolite), creating repository and adding users on both Linux and windows platform.
* Provide administration and user level support for GIT
* GIT Administration
* SSH Configuration
* Responsible for creation of user accounts and PUB key generation
* Creating the master Branch, release branch and feature branch.
* Merging the across the branch.
* Creating the Tag(Baselines) once build completed.
* Switching between the Branch
* Migrating SVN to GIT
* Solving GIT Conflict issues
* GIT Revert after commit
* GIT Stash Operation
* GIT Patch operation
* GIT FIX Mistakes
* Worked closely with Developer’s in debugging issues.

**SVN (Subversion):**

* Collabnet Subversion Administration (Installation of Server and client, Repository creation User and group management, Folder level restriction, File restoration Migration)
* Collabnet Subversion Edge Administration (Installation of Server and client, Repository creation User and group management, Folder level restriction, File restoration, Migration)
* Migration of source code management data from PVCS to SVN using SVN importer
* Working with Tortoise SVN as subversion client. Integration of SCM tool with IDE (Eclipse)
* SVN Command line Interface
* Creating Branches and merging the source code.
* Creating base line.
* Worked closely with Developer’s in debugging issues.
* Kept daily tracks of work done and provided the data to the clients on monthly basis.
* Migrating SVN Repositories from one server to another server with History.
* SVN Atomic commits

**PVCS (Serena Version Manager) and Serena Dimensions CM:**

* Provide administration and user level support for all PVCS, and Serena Dimension CM Serena Dimension CM Administration Activities
* Installation of Dimension with oracle, connecting with License server.
* Database creation, Product, Project creation, User and Groups management, Roles Assignments and Privileges, Design parts workflow, Life cycle creation, Valid set Definition creation
* Created workflows on Serena dimensions CM.
* Serena PVCS Administration (installation of Server and Client)
* PVCS Database creation
* Responsible for user creation and license assigning
* User level permission, Migration
* Create Branch and merging across the branch
* Create a baseline and labels
* Semaphore issues fixes.
* Connecting with file server admin

**CI/CD- Jenkins:**

* Setup a Jenkins server on both Linux and Windows
* Responsible for user creation and LDAP Integration
* Providing administration and user level support for Jenkins
* Jenkins upgrading using Jenkins.war
* Installing Apache Tomcat and deploying Jenkins. War
* Creating the Jobs and setup the parameters.
* Creating the Nodes (Slave Agents) and connecting nodes with JAVA servlet and install as service.
* Taking the Jenkins backup
* Setup the Email Notification
* Working with Source code management plugins for automate build system.
* Working with Build triggers (Build Periodically, Poll SCM)
* Working with Upstream and downstream jobs
* Integrate the SONARQUBE and JENKINS
* Manage Plugins
* Started working on Pipelines
* Once Build completed, it will deploy the package into server and it will install automatically.

**GERRIT:**

* Installing gerrit Review
* Configuring GIT Review
* Setup a GIT review
* Setup SSH keys in Gerrit.
* Gerrit create branch, Make & Commit your changes, Prepare push changes to gerrit.
* Gerrit Update master, View the changes and editing via the web interface
* Review Before merge and how to comment on, review and merge.

**SONARQUBE:**

* Setup and configure SonarQube instance on Windows and Linux
* Setup and configure sonar scanner instance on Windows and Linux
* Analysis codes on c, c++ and Java projects
* Integrating with Jenkins
* Working on ANT based JAVA projects.
* Working sonar. properties files

**Ansible:**

* Setup and configure the Ansible on Windows and Linux
* Working on Playbooks for small requirements
* Configuring the webservers and database servers on host file.
* SSH key configuration

**Achievements:**

* Individually done installation on Serena dimension CM with oracle and connected with license server with limited Knowledge transfer, implemented many projects in Serena dimension
* Individually supporting 30 + projects in Serena dimension.
* Individually supporting 50 + projects in Serena version manager (PVCS).
* Individually supporting 100 + projects in subversion and subversion edge.
* Implemented Subversion Edge
* Migrated 20 + projects in Serena version manager PVCS to SVN
* PVCS2SVN migration done with fully customer satisfaction
* VSS2SVN migration done with fully customer satisfaction
* Migrated 20+ ClearCase branches to RTC with history and got rewarded.

**Personal Details:**

**Name** **:** C.R. SHANMUGASUNDARAM

**Date of Birth** **:** 05-Dec-1989

**Sex :** Male

**Languages Known** **:** Tamil and English

**Signature C.R. SHANMUGASUNDARAM**