

## RESUME

**Harshit Dwivedi**

SRE/DevOps Software Engineer

Mobile : +91 9742970617

Email id : [harshbadal11@gmail.com](mailto:harshbadal11@gmail.com)

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### Career Objective:

To work with Progressive and Professional organization, have challenging and responsible opportunities, which will help to improve my knowledge and utilize my strengths and skills.

### Qualification:

- Completed B.E. in the stream of Computer Science Engineering from REVA INSTITUTE OF TECHNOLOGY AND MANAGEMENT under VTU in 2017.

### Professional Experience:

- Working as a Software Engineer in **Ruckus Wireless** (part of **COMMSCOPE**) from Sep 2017 to till now.

### Technical Skills

- |                                     |   |                                 |
|-------------------------------------|---|---------------------------------|
| • Scripting Languages               | : | Bash (UNIX), Python             |
| • Programming Languages             | : | C, C++, Java                    |
| • Build Tools                       | : | Make                            |
| • SCM Tool                          | : | Git (Bitbucket), Perforce       |
| • Continuous Integration (CI) Tools | : | Jenkins                         |
| • Databases                         | : | My-SQL                          |
| • Operating Systems                 | : | Linux (Ubuntu, Fedora), Windows |
| • Web Server                        | : | Nginx, Apache                   |
| • Virtualization                    | : | Docker                          |
| • Cloud                             | : | AWS PoC (EC2, S3, IAM, VPC)     |

### Professional Summary:

- Having 3 years of professional experience in IT industry as an **SRE/DevOps Engineer**, build, deploy and release process with various environments.
- Experience of Implementing DevOps by integrating source control tools **GIT**, **Perforce**, build tools like Make, CI/CD tool like **Jenkins** and Deployment automation tool like **Ansible** practices.

- Configured and maintained **Jenkins** to implement the **CI** build pipeline using scripted and declarative Jenkins pipeline methodologies.
- Good experience and Administrate Continuous Integration tool like **Jenkins**.
- Created automated build and release environment using Continuous Integration Tools **Jenkins**.
- Implement Master-Slave concept in **Jenkins**.
- Extracting, Reporting and Keeping track of data generated for all releases and provide insights to the management on an on-going basis.
- User Management in Perforce and GIT-Bitbucket. Providing P4 and GIT-BITBUCKET Access and control to the Development and QA team members.
- Troubleshoot the Build and Deploy issues.
- Scripting in multiple languages on Linux and Windows –**Python, Shell** script etc.
- Worked with Dev Team during Perforce SCM to GIT migration.
- Jenkins build set up for auto-merge (code merging between different branches) jobs to perform code merges on a regular frequency to integrate the source code from various branches.

## **Projects:**

**Project Name** : Access Point Firmware, ICX switches

**Client** : Ruckus Wireless

**Tools** : Jenkins, Perforce, Git, Linux, Shell script.

Project Description: Regular release of Wireless access point (WAP), and ICX switches firmware for wireless and wired networking devices that allows other Wi-Fi devices to connect to a wired network.

## **Roles & Responsibilities:**

- Coordinate/assist developers with establishing and applying appropriate branching, merging conventions using GIT and Perforce source control.
- Configured and maintained Jenkins to implement the CI process and integrated the tool with Ant and Maven to schedule the builds and store the builds on SONATYPE NEXUS and JFrog artifactory server.
- Supporting daily and weekly builds to various environments.
- Extracting and Keeping track of data generated for all releases and provide Insights to the management on an on-going basis.
- Continuous Delivery is being enabled through Deployment into several environments of Test, QA using Jenkins.
- Respond constantly and aggressively to automated test and build issues.
- Interact release engineering and QA to debug and also resolve identified issues.
- Implementing various wrapper tools to automate the human intervention processes.
- Providing P4 Access and control to the Development and QA team members.

## IMPLEMENTATIONS:

- 1. Project Module** : Build Promotion and Archive automation  
**Tools** : Jenkins, Perforce, Python scripts, Ms-Excel

**Description**

This module has helped to promote an important build in Jenkins job to kept forever and create a backup of build images to BACK UP path.

**Impact**

About one office day is saved by this module as it was previously manually handled. An important bridge it has built between two of Ruckus product, SZ and ICX.

- 2. Project Module** : RE-VMs disk size check-up  
**Tools** : Python Scripts, Embedded HTML & Bash, Jenkins, SMTP Server

**Description**

This module has allowed RE team to keep track of RE VMs of their disk space and automatically send alert notification. Also, the email that contains the link of dynamic bar graph which display the statistics of all build VMs disk space.

**Impact**

It removed the constant monitoring of the servers and one less thing to worry about.

- 3. Project Module** : Ansible  
**Tools** : Linux Machine (Ubuntu 14.04), Ansible Tool

**Description**

Ansible is a configuration tool, which allows RE team to perform a set operation (such as installation of new pkgs) on several servers using playbook.

**Impact**

It allowed RE team to maintain their own servers and reduced the dependencies on IT team.

- 4. Project Module** : Docker Implementation  
**Tools** : Linux Machine (Ubuntu 14.04), Docker tool

**Description**

Docker is a container tool, which creates container where we can setup our own environment to run an application.

**Impact**

It is new technology we this organization has adopted. Using this, a new Jenkins application has been launched in a container.

- 5. Project Module** : JiraUser AutoAdd  
**Tools** : Jira Tool, Bash Script

**Description**

This application module was created to add/remove users Jira ID to Bitbucket Pull Request Mandatory Reviewers group and automatically update the group details in wiki page.

**Impact**

It allows RE team to restrict the Jira admin permissions to multiple users, as adding/removing a new user from Bitbucket requires Jira administrator permissions, which can be error prone.

- 6. Project Module** : SSR Generation Report  
**Tools** : Perforce, Bash scripts, Python Scripts, MS-EXCEL

**Description**

It is an automation process which allows to generate an MS Excel report weekly with each developer name along with managers, product they support, SSR IDs and the files they have modified for each release.

**Impact**

Since it is an automation process, it relieves RE team working on weekends and saves around 4-5 working hours. It also combines several sheets into one single excel file.

- 7. Project Module** : Build Recreation  
**Tools** : Python Scripts, Jenkins  
**Description**

It helps to recreate a build if it is lost, with the build specification (commit id, branch, release, etc.) file we store.

**Impact**

It has helped to recreate old builds which were lost during storage cleanup, which helps dev community with their requirement.

- 8. Project Module** : Jenkins Jobs Backup  
**Tools** : Linux Machine (Ubuntu 14.04), Jenkins, Bash Scripts  
**Description**

This tool allowed us to take backup of all job's config.xml file in server where Jenkins is hosted, which can be used to retrieve a job's configuration in case Jenkins crash down.

**Impact**

It has allowed RE team to do several operations in safely manner, like changing of IPs to FQDN. Also, it has helped us during upgradation RE Jenkins.

- 9. Project Module** : Build Prioritization  
**Tools** : Jenkins, Linux VM, Bash Scripts  
**Description**

The ICX RE team has fewer resources and few testbeds which are being used to validate the builds. Along with Escalated Legacy builds and active releases, we have opportunity to prioritize a build based on their urgency status.

**Impact**

It has helped Dev managers or a product supervisory to prioritize the build based on customer priority while keeping the RE build machine and testbed resources in check, which has resulted patch deliveries in timely manner.

- 10. Project Module** : Build Matrix Report  
**Tools** : Linux with SMTP, Embedded HTML Python Script  
**Description**

It generates weekly error report based on types of errors resulting in pipeline build failure, along with the list of failed build URLs.

**Impact**

This module is basically created for management team, where they can analyze the cause of build failures and take necessary measures if errors are due to infrastructure.

**Declaration:**

I hereby declare that the above-mentioned information is correct up to my knowledge and I bear the responsibility for the correctness of the above-mentioned.

**PLACE: Bangalore**

**Harshit Dwivedi**