

S Mohan Kumar
DevOps Engineer

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Professional Summary:

- ❖ Having around **5+** years of Overall experience in IT industry, which includes implementation of Devops and UNIX System Administration along with creating and implementing a cloud strategy based on Amazon Web Services DevOps experience in Windows and Linux Environment.
- ❖ Proven experience on Build Tools like **Maven**.
- ❖ Strong experience in version control tools like **Git, GitHub, Source, Bitbucket**.
- ❖ Created pipeline jobs from scratch by using **Jenkins**, as well as **Master Slaves**
- ❖ Maintain build profiles in Team Foundation Server and Jenkins for **CI/CD pipeline**.
- ❖ Developing CI/CD roadmap and implementing to the project by **jenkins**.
- ❖ Used **SonarQube** for code coverage and code quality.
- ❖ Integrate **nexus artifactory** to Jenkins and push the artifacts in art factory.
- ❖ Experienced in deploying **EAR, JAR, and WAR** in **Tomcat, JBoss** Application Servers in Linux/Windows Environments,
- ❖ Efficient in writing scripts using shell for automation and monitoring them.
- ❖ Experience working on several Docker components like **Docker Engine, Docker images, Docker Containers** and handling multiple images primarily for middleware installations and domain configuration.
- ❖ Experience in implementing **Continuous Integration** and deployment using various CI Tools like **Jenkins** & configuration management tools like **Chef** and **ANSIBLE**.
- ❖ Automate the Build and deploy of all internal Java environments using various continuous integration tools and scripting languages.
- ❖ Experienced with **Data Dog, CloudWatch** as IT Infrastructure Monitoring tools.
- ❖ Ability to build deployment, build scripts and automated solutions using scripting languages such as Shell
- ❖ scripting (**Bash**), **YAML** and **Groovy scripting**.
- ❖ Experience in IaC tools like **Terraform** and **AWS CloudFormation** template.
- ❖ Release Process Implementation like DevOps and Continuous Delivery methodologies to existing Build & Deployment Strategies.
- ❖ Led sprint reviews and daily scrum meetings to touch base with whole team, Coached team in optimal time utilization through concepts of scrum, Sprint planning and agile management methodologies.
- ❖ Detailed knowledge in UNIX shell script, UNIX system concepts, LINUX, networking.
- ❖ Experience with software development methodologies such as **Waterfall, Agile** and Scrum.
- ❖ Hands on experience in **Terraform**.

- ❖ Hands on experience in **Kubernetes**.

Experience on Cloud-Computing

- ❖ Experience in working with Amazon Web Services (AWS), Creating EC2 Instances and configuring all web Services like **EC2, S3 bucket, IAM, Load balance, Auto scaling, cloud watch, Cloud Build, Cloud commit, Cloud Deploy, Cloud Pipeline, VPC, RDS, MongoDB, Postgres** through AWS.

Technical Skills:

SCM Tools	:	Git and GitHub, Bitbucket, Gerrit
Build Tools	:	Maven, Ant
CI Tools	:	Jenkins
Web & Application Servers	:	Apache Tomcat, Weblogic.
Configuration Management	:	Ansible, Chef,
Containerization	:	Docker
Ticketing	:	Jira
Monitoring Tools	:	Nagios, Cloud Watch
Code Quality	:	Sonar Qube
Operating Systems	:	Windows, UNIX and Linux
Cloud	:	Amazon Web Services (AWS)
Languages	:	Java, Python
Database	:	Mysql, SQL, No SQL
Scripting Language	:	Shell Scripting, YAML, Python, Ruby, Groovy

Educational Qualifications:

- ❖ Completed B.Tech from JNTUH in the year 2018

Professional Experience

- ❖ Working as DevOps Engineer in **Qualcomm India Private Limited** on payroll of **L&T Infotech Private Limited** from March-2021 to till date.
- ❖ Previously worked as Software Engineer in **Infosys Technologies Private Limited** from July 2019 to March 2021.

Project Name 1: Qualcomm (Kodiak)

Client	:	Qualcomm Group, San Diego, California U.S.
Environment	:	Rumi, eCRM, Linux, Python, Gerrit.

Responsibilities:

- ❖ Developed an android application which could be used for theft detection of mobile device.
- ❖ The android application utilizes Bluetooth and GPS APIs provided by android environment to keep a track of devices. Each android device holds a unique identifier and contains a SQLite database storing location of the device in its vicinity. Upon

reception of query message for a particular ID the device the forwards the last know geographical coordinates of the device corresponding to it. **Tools: Android SDK, ADB, and Java.**

- ❖ Project involved the patching of the Linux with LITMUS-RT and using shell and python scripts to measure tardiness of the video application **Tools: Linux, Python, Shell, Qcom, LITMUS-RT.**
- ❖ Development for Embedded Linux on ARM architecture. Developed modules for Linux based character.
- ❖ Detected 5 set of movements including sitting, standing, walking, running and sleeping using Micaz motes. Used these detected data to determine the calories burnet in these position or movements performed. Tools: Tinyos, Nesc.
- ❖ Development for Embedded Linux on ARM architecture. Developed modules for Linux based character-device driver for communication on URT. The driver was emulated using QEMu emulator for a bare-metal ARM processor and is a loadable kernel module. The driver is capable of echoing the received character and if the character is a letter it converts it to uppercase and display it on the screen. Tools:C, Linux kernel, Qemu.

Project Name 2: Continental Automotive Group

Client : Continental Automotive Group, German
Environment : Git, GitHub, Maven, Jenkins, SonarQube, Nexus, chef, Docker, AWS, Linux, Shell.

Description:

The head-up display (HUD). Continental is one of the world's first companies to develop a HUD for commercial vehicles and has installed the technology in its own Innovation Truck.

Project management and software development for multiple engine /Head-up-display /Cluster /tyres projects providing engine management system and software solution for the OEM's FORD,GM, HUNDYAI,DAIMLER,VOLKWAGON,TOYOTA, RENUIT,BMW,NISSAN.

Experience in software development in C, automotive system and software, Project management of all aspects.

Responsibilities:

- ❖ Created release branches in GIT by GIT Administration including branching, reporting and assisting with project and end user support.
- ❖ Developed build scripts using MAVEN and Ant as the build tools for the creation of build artifacts like jar, war or ear files.
- ❖ Proven experience on Jobs migrations and performing BVT test cases.
- ❖ Verify Build requests, Resolve merge & branch conflicts.
- ❖ Configured Paco, Perl, Cygwin, Python, Pycharm, Electrobite, Conan, Cmake Softwares.
- ❖ Implemented SonarQube for code quality check and Nexus repository and integrated them into Jenkins to achieve Continuous Integration.
- ❖ Static code analysis Klocwork tool used to identify security, safety and reliability issues in C, C++, and Embedded.
- ❖ Installed and administered Nexus repository and created roles and privileges to restrict access to the users.

- ❖ Used various plug-ins to extend the base functionality of Jenkins to deploy, integrate tests and display reports.
- ❖ Used Jira to capture, organize, and prioritize incidents and tickets.
- ❖ Creating build jobs & Work with the development team to fix build errors if any.
- ❖ Executing the playbooks to Ansible server and managing those Playbooks.
- ❖ Monitor and fix the continuous integration builds running in Jenkins.
- ❖ Troubleshooting application related issues by log verification.
- ❖ Based deployments to Amazon-EC2, Upload Build artifacts in to Amazon S3 location, Created VPC, Create and manage AWS users and groups through IAM, Monitoring servers through Amazon Cloud Watch, Setup/Managing Databases on Amazon RDS
- ❖ Performing deployments to multiple environments like Dev, QA, UAT & Production environments.

Project Name 3: Novartis Healthcare

Client : Novartis, USA
Environment : Git, GitHub, Maven, Jenkins, SonarQube, Nexus, chef, Docker, AWS, Linux, Shell.

Description:

Novartis AG is a holding company. The Company specializes in the research, development, manufacturing and marketing of a range of healthcare products led by pharmaceuticals, including eye care products. Its portfolio includes medicines, eye care and generic pharmaceuticals. As a configuration Management Engineer, I worked in code quality checking and merging the codes from different teams and interacting with them and provisioning the required services on time.

Responsibilities:

- ❖ Created best practices for branching & Merging Strategy to maintain the source code in the GIT version Control Systems.
- ❖ Responsible for creating branches, merging and resolving merging conflicts.
- ❖ Implementation/setup continuous project build and deployment delivery process using Subversion, Git, Jenkins, Tomcat.
- ❖ Administering Jenkins, plugin installation, master/slave or distributed build setup.
- ❖ Configuration of nodes/slaves for Jenkins to optimize and smooth running of build jobs.
- ❖ Setup and monitor daily continuous/production builds.
- ❖ Administered the automatic build process to ensure correct build execution, and resolved the build issues.
- ❖ Installed, configured and integrated Maven with Jenkins.
- ❖ Create users, groups and manage access controls in Jenkins.

- ❖ Automated build & deployment and CI process for many projects from scratch. Wrote build files and created jobs in Jenkins.
- ❖ Configuration of various plugins for Jenkins for automation of the workflow.
- ❖ Configured JIRA and integrated it with Jenkins.
- ❖ Creating Chef Cookbook, Uploading Cookbooks to Chef Server.
- ❖ Configuration of Chef and creating run-list for each node and Configuration of chef roles and creation and assign to particular node.
- ❖ Was involved in creating Docker Containers, images & taking back-up of images in Docker-Hub.
- ❖ Amazon Web Services (AWS) and with the configuration of various Amazon products (Amazon EC2, Auto Scaling).

Project Name 4: Hikvision

Client : **Hikvision , China**
Environment : Git, Maven, Jenkins, Jfrog, Docker, Chef, Tomcat & JIRA

Description:

Hikvision is product based company. The company specializes in video surveillance technology, as well as designing and manufacturing a full-line of innovative CCTV and video surveillance. Hikvision Smart IP cameras have full smart feature-set such as intrusion detection, object left/removal detection etc. to better assist in-office security management.

Responsibilities:

- ❖ Managing all phases of Build and Release activities and deployment
- ❖ Responsible for Creating, Deploying and Posting Patches, Automating Patch Build Process.
- ❖ Worked with Subversion, Proposed and implemented branching strategy.
- ❖ Installation and troubleshooting SVN related problems.
- ❖ Coordinating with developers and testers for SVN related issues.
- ❖ Automating builds using Jenkins and Ant scripting
- ❖ Responsible for Daily builds, Continuous build and patch builds, Cron jobs
- ❖ Responsible for creating the new build setup and new projects using Jenkins
- ❖ Responsible for taking the build and deployment using Jenkins and Ant
- ❖ Created users, partitions, giving permissions and checking disk spaces, file downloading through NFS, FTP, kernel patches on Linux environment.