Manish Kumar

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Professional Summary:

- 4.1 years of experience in DevOps.
- Excellent DevOps development skills using AWS, Python, Kubernetes, Jenkins, Docker, Maven, Shell Script, Terraform and Ansible and Machine Learning Models.
- Experience on AWS services like EC2, S3, Cloud Front, Route 53, ASG, IAM, CloudFormation, EKS.
- Having hands on experience in handling Use Cases, Automating Build and Deployment Process, Creating CICD Pipelines, Functional Specification, Knowledge Transfers and Business Analysis, converting infrastructure into Infrastructure As Code and maintenance life cycle process.
- Having good Knowledge on designing LLD's, Pipelines, creating Kubernetes clusters, Integrating Jenkins build to Kubernetes cluster.
- Good Knowledge of Agile methodologies, creating AWS infrasturcture using Cloud Formation.
- Having good knowledge of Telecom Solution and Telecom Functionalities.
- Having experience on developing Ansible playbooks to configure and maintain software components of the existing infrastructure and setting up environments.
- Managed GitHub, SVN repositories and permissions, including branching and tagging.
- Good knowledge on Servers and Application setup on Webserver, Configuration of DB server, Docker on AWS server, Micro Services.
- Selecting features, building and optimizing classifiers using Machine Learning Techniques.
- Implemented Machine learning models using Python and Scikit-Learn to predict Customer Churn rate.
- Build, train, Tune and Deployed machine Learning Models using AWS SageMaker.

Professional Experience:

- Currently I am working as a Senior Software Engineer in **Encora (Myntra)** from 26th November 2020 to current till date.
- Earlier I was working as a Software Engineer in **Tech Mahindra** from 2nd February 2017 to 20th November 2020.

Education Qualification

- **Bachelor of Engineering** (Electronics and Communication) from Rustamji Institute of Technology Gwalior in the year of **2016**.
- **XII**(**Science**) from Kendriya Vidyalaya, Faridkot, Punjab in the year of **2012(CBSE)**.
- **SSLC** from Kendriya Vidyalaya, Faridkot, Punjab in the year **2010** (CBSE Secondary Education Examination Board).

Technical Skill

Programming Skills	: **Python 3, Shell Scripting, YAML**
DevOps Tools	: **Kubernetes, Docker, Jenkins, Ansible, GIT, Maven, Icinga, SVN**
Databases	: **MySQL, Oracle**
Development Tools	: **Pycharm, Google Colab**
Application/Web Servers	: **Tomcat 8.5, Dockerized AWS, Apache**
AWS	: **EC2, EKS, IAM, VPC, S3, CloudFormation, RDS, SageMaker**
Incident Tools	: **Jira**

Development Architecture	: **Kubernete Cluster, Django**
Build Tool	**: Maven 3, GIT**
Operating System	: **Windows 7**, **10, LINUX**
Machine Learning	**: Numpy, Pandas, Scit-Learn.**
Training and Certification	**: AWS and Machine Learning using Python**

Work Experience: -

Project: 1

Project Exposure: End of Reason Sale and Transformation by Myntra	
Description	EORS is the project of Myntra which involves Automating whole infrastructure and onboarding Machine, providing support for Installation through Ansible, Prometheus for checking real time data and Icinga and New relic to monitor state of Machine such machine load, Disk space . Project creation involves writing playing to install and updates any software to thousands of machine with help of Ansible and Jenkins. We store the ansible playbook on GIT and then with the help of Jenkins, we run those playbook on desired environment. We onboard azure machine with the help of Terraform script and Jenkins. We provided parameters through Jenkins Jobs and then same parameters are fed to Terraform scripts. We used python boto3 library to automate whole infrastructure of Azure. Developed kubernetes cluster with the help of Azure Kubernetes Service.
Team Size	8 Members
Environment	**Python, Jenkins, Kubernetes, Docker, Unix shell scripting, Ansible, Terraform, Icinga, Route 53, Cloud Watch, Apache, Cloud Formation, AWS EC2, S3, IAM, VPC, Machine Learning Models, Numpy, Pandas, New Relic, Prometheus, Power DNS, HAP, Odin and Metis, Azure Virtual Machines.**

Roles & Responsibilities	➢ Developed and maintained automated CI/CD pipelines for code deployment using Jenkins, ansible, docker, Terraform and Kubernetes. ➢ Developed email notification service using Python and Shell Scripting. ➢ Implemented maven work flow to create artifacts from source code and then artifact converted to image using docker and uploaded images using jenkins in AWS Repository and deployed images using kubernetes on Kubernetes Clusters of AWS EC2 machines. ➢ Involved in creating EKS cluster using Cloud Formation and setup ECS cluster and repository to store images. ➢ Implementing a continuous integration and continuous deployment (CI/CD) pipeline involving Jenkins, Ansible to complete the automation from commit to build and deployment. ➢ Implemented monitoring of service and vitual machines using Prometheus and Grafana. ➢ Setup AWS infrastructure using various services and automated with help of python boto3. ➢ Integrating Jira with Jenkins and administered Jira and assigned the roles for the users. ➢ Developed Ansible playbooks to configure and maintain software components of the existing infrastructure. ➢ Set up and managed 7000 Linux servers with 99% up-time using Ansible. ➢ Developed Terraform script to provisioned VM on AWS. ➢ Discussion of impact and Dependency on requirement in daily Scrum meeting. ➢ Implemented Icinga to monitor machines health, disk usage and other crictical task. ➢ Virtualized the servers using Docker for the test environments and dev-environments needs, also configuration automation using Docker containers. ➢ Created a Continuous Delivery process to include support building of Docker Images and publish into a private repository- Nexus v3 ➢ Involved in making LLD's on requirements and identify the use cases , Analysis and taking sign off from senior Architect and implementing the same into project.

Project: 2

Project Exposure: New Order Management Transformation by Orange Belgium	
Description	New Order Management is the product of Orange which involves workforce Management, Network rollout, Prepaid and Postpaid Service Management and TV and Internet services. Functionality involves creation of New order, address change, Surf extra Card, task creation, Date Management on Task completion, Bulk order Management, User and role Management, knowledge works and reports, auditing, Service Order Management. Project creation involves triggering respective process by Velocity in turn new instance will be created with multiples order lines and multiple attributes belongs pre-defined Queue as per business process flow and business flow is defined in every Order Line Details. Developed code check into SVN and with the help of plugin SVN and Jenkins integrated to checkout code into Jenkins server for Continuous Integration flow. Dockerfile triggered with the help of Jenkins Job to create Images and images pushed to Nexus through Ansible Playbooks. Images are deployed to Kubernetes Clusters.
Team Size	20 Members
Environment	**Python, EKS, Jenkins, Kubernetes, Docker, Unix shell scripting, Ansible, Icinga, Cloud Formation, Apache, Azure VM, Prometheus, VPN, Terraform, SageMaker, AWS, EC2, VPC, S3, Auto Scaling, Application Load Balancer.**

Roles & Re-sponsibilities	➢ Integrated Terraform scripts for provisioning of Virtual Machine with Jenkins. ➢ Wrote Ansible playbooks to automate whole Infrastructure. ➢ Developed Icinga script to integrate virtual machine to check load, Disk space and Alerts. ➢ Created end to end pipeline in Jenkins which onboard the process of Data Storage and Starting from checking out code from GIT then execution of script on VM through Ansible or Terraform scripts. ➢ Implementing a continuous integration and continuous deployment (CI/CD) pipeline involving Jenkins, Ansible to complete the automation from commit to build and deployment. ➢ Implemented maven work flow to create artifacts from source code and then artifact converted to image using docker and uploaded images using jenkins in nexus central repository and deployed images using kubernetes on web servers. ➢ Developed Terraform script to provisioned VM on AWS. ➢ Discussion of impact and Dependency on requirement in daily Scrum meeting.

	➢ Creating AWS infrastructure using cloud Formation and Terraform and implemented solution for Networking in AWS. ➢ Orchestrated Docker container cluster using kubernete. ➢ Created machine learning models with python modules Scikit-Learn to predict customer churn rate, fraud detection and illegal access, authorization, theft or fake profiles, cloning, behavioral fraud, etc. ➢ Interacting with MySQL Database.

Personal Profile

Name	:	Manish Kumar
Date of birth	:	15th July 1995
Sex	:	Male
Marital Status	:	Single
Known Languages	:	English, Hindi

Declaration

I hereby declare that the above written particulars are true to the best of my knowledge and belief.

Place:
Date: Manish Kumar