**CURRICULUM-VITAE**

**Ajay Kumar Singh**

**Cloud/DevOps Principal Software Engineer**

**Contact Information**

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**Professional Summary**

**12+** Years of experience in the field of IT/Banking/Software/Hardware/Networking/Cloud and DevOps, Responsible for Installation, Commissioning and Maintaining the Customer locations in the field of LAN/WAN, Linux, Lead data center transformations projects to migrate client/server applications and platforms to Public/Private cloud environments.
**Expertise in VMware/DTC/ AWS Cloud Datacenter Design, Deployment, Migration & DR Solutions**.
Core Expertise in Cloud /SDDC, Compute, Storage, Networking, Virtualization, Automation (Python, Puppet), Network, Storage and virtualization Automation technologies
**Successfully built more than 20+ DCs (with end to end ) across the globe China, Brazil, Vietnam, Japan, Thailand, Hong Kong, Gambia, Dubai.**

**Education**

Year Qualification Institution/University

2008 MCA RGPV (BHOPAL) M.P.

2004 BCA BARKATULLA UNIVERSITY BHOPAL (M.P.)

2000 E-LEVEL (H/W) CEDTI, NEW-DELHI

1999 CIC CERTIFICATE IN COMPUTING (IGNOU) (BHOPAL)

1998 CNT CERTIFIED NETWORK TECHNICIAN (MPSTEP) BHOPAL

1997 BA BARKATULLA UNIVERSITY BHOPAL (M.P.)

1994 Higher Secondary M.P. Board (Bhopal)

1992 High School M.P. Board (Bhopal)

**Technical Strengths:**

**Operating Systems**: **Linux (RHEL 4/5/6/7/8)** Windows.

**RHN Proxy (5/6) :** system management software

**Virtualization Stack:**  VMware vCloud Suite and VRA Tools.

**Cloud:** AWS/VMWARE/GCP

**DevOps:**  K8, Docker, Ansible, GitLab, Jenkins, ISTO, Harbor, Vault, DNA

**Load Balancer:**  **[**F5] BIG-IP [LTM/GTM]

**Network Services:** [Infoblox] TCP/IP, DNS, DHCP, LDAP, NTP, SAN.

**Server Hardware:** Dell, HP, Cisco UCS B-200.

**Scripting Languages:** Core Python.

**Hardware Layer**: Dell (Power edge R620/R630) UCS Rack/Blade server

 [Cisco UCS B200 M3/UCS C220 M3] ESXi (6.x), Nexus 5K/7K.

**Management Console:** Dell accessing iDRAC, UCSM

**Application & Tool:** Splunk, VROps, Nagios, Nginx, Apache, Isto, Grafana, Prometheus

**Routing and Switching:**

**Configuration, administration, & troubleshooting** of Cisco 3600, 2500, 2800, 2900, 3700, 7200.

Cisco 3700, 3560 & 4900 series layer 3 enabled Switches & 2900, 3750 E, G X-Series Catalyst Switches. Cisco 36xx, 26xx, 25xx, 17xx series routers,29xx, 35XX Catalyst series switches

* **Routing Protocol** like, EIGRP, OSPF, IS-IS, BGP4 (e BGP & i BGP) and Static routing, Default Routing.
* **Configuration & Troubleshooting** of different OSPF areas and IS-IS areas.
* **Advanced TCP/IP Network design**. Troubleshooting IP Routing, Route Summarization & Route Redistribution. GRE Tunneling (Generic routing & encapsulation), Implement PBR (Policy based routing) & Route Filtering. IOS DHCP Server configuration & troubleshooting.

**Professional Certifications:**

**Cisco DevNet 500**

**Cisco Certified Network Professional Routing and Switching (CCNP-RS)**

**GitLab Certified Engineer**

**Red Hat Certified Engineer**

**AWS Certified Solutions Architect - Associate**

**VMware Certified Professional Datacenter Virtualization**

**VMware Certified Professional Network Virtualization**

**VMware Certified Professional Cloud (vCloud Director)**

**VMware Certified Professional vSAN**

**Core Python Scripting.**

**ITIL-V3 Certified IT Professional**

**Career Profile:**

**Organization**: Dell International Services India Pvt Ltd.

**Duration:** June-2020 to present

**Designation**: Cloud/DevOps Principal Software Engineer IT

**Organization**: Pyramid IT Consulting Pvt. LTD

**Duration:** April-2018 to Jan 2020

**Designation**: Sr. Cloud Technical Consultant

**Organization**: VMWare Software India Pvt. Ltd.

**Duration:** Dec-2013 to Mar-2018

**Designation:** Cloud Infrastructure Support Engineer

**Organization**: TEK Systems, India Pvt. Ltd

**Duration:** Feb-2013 to Oct-2013

**Designation**: Sr. Network Engineer

**Organization**: IBM India Pvt. Ltd.

**Duration:** Sep 2009 to Jan-2013

**Designation**: SOP (Senior Operation Professional)

**Organization**: Zenith Infotech Ltd. (Part-Time)

**Duration:** Jul-2003 to Aug-2009

**Designation**: Sr. Data Center Specialist

**Organization**: Netcom (P) Ltd

**Duration:** July-1997 to Jan-2001

**Designation**: Residential Network Engineer

**Projects:**

**Organization: Dell International Services India Pvt. LTD**

* **Project Name**: **DTC (Dell Technology Cloud) Hybrid-Cloud**

**Role: Cloud /DevOps Principal Software Engineer IT**

**Duration:** 3 Months

**Description: Integration E2E CI/CD Pipeline GitLab/Jenkin/Ansible/Podman/Docker/Apache/Nginx** with Different types of environment and stages (Build/Verify-Build/Sign/ DevOps Assessment CI/CD maturity improvement/ Docker/Deploy/Notification/Test/Stage/Prod) Build k8 cluster on AWS/Google/DTC in DEV and PROD Environment with user provided instance details. Used terraform to build and infra and ansible Gitlab as a configuring manager, python scripts for boot strapping and deploy scripts

Also Integrated security tools like Sonarqube/Checkmarx/Blackdock/Twistlock/Prisma (Paloalto) Security tools, Helm/Isto/Grafana/Prometheus/Newrelic/Splunk/Harbor/Vault/Infoblox DDN/Security with Native Cloud etc.

**Projects:**

**Organization: Pyramid IT Consulting Pvt. LTD**

**Total 1 year 10 Month Worked on DevOps and Hybrid Cloud environment:**

**Software/Application/Tools:** GitLab, Ansible, Jenkin, Docker, **Apache/Nginx,** Podman, Openshift, REST-API, Swagger, sonarqube, Junit, E2E Smoke-test, Security (Checkmarks, Black-duck) Grafana, ISTO, Helm, Splunk etc.

* **Project Name**: **Build K8 (Kubernetes) cluster on AWS EC2**

**Role:** Cloud Technical consultant

**Duration:** 6 Months

**Description:** Build k8 cluster on AWS EC2 cloud in DEV and PROD Environment with user provided instance details. Used terraform to build and infra and ansible as a configuring manager, python scripts for boot strapping and deploy scripts.

* **Project Name: Network Devices Upgradation**

**Role:** Cloud Technical Consultant

**Duration:** 3 Months

**Description:** Upgrade the Juniper and cisco network devices using python script and ansible where required inputs will be provided by the user and create a hostvars file and upgrade the devices based on the device model and type of device.

* **Project Name:** **Setup VPC Network using terraform**

**Role:** Cloud Technical Consultant

**Duration:** 3 Months

**Description:** Setup VPC network for public cloud like GCP and AWS using terraform wit

Private and public subnets and add IGW and NSG to the network based on the user inputs.

* **Project Name:**  **Setup API gateway for DYNAMODB**

**Role:** Cloud Technical Consultant

**Duration:** 3 months

**Description:** Setup API gateway using AWS lambda and python script to fetch the required data from DYNAMODB where client will have all the required analytics data from different resources.

* **Other responsibilities**:
* Worked on several DevOps tools like Ansible, GitLab, K8, docker, Jenkin, Python, Shell, Terraform, and Packer and so on for CI/CD Process.
* Developed End to End Automation for deploying **IAAS/PAAS/SAAS/XAAS/CAAS** Application on GCP and AWS.
* Developed and containerized Python wrappers for various purposes.
* Converting existing applications to containerize and enable easy deployments.
* Built Deployment Pipelines to Deploy IAAS using terraform and configure application over it.
* Built Deployment pipelines to push configuration changes to an existing Application Environments on various clouds.
* Worked as a team leader and Maintained 13 members team delivered different kind of Automation services to T-Systems
* Worked as a senior consultant and provided various networking related services for Infoblox ,F5, system management and package management (RHN) software that makes Red Hat infrastructure easier to deploy, scale, and manage across any environment..
* Worked on several DevOps tools like **Ansible, Jenkins, GitLab, Apache/Nginx** and so on for CI/CD Process and Integrated **RFC** automation with **Gitlab** pipeline.
* Deployed various **Docker** and **Kubernetes** environment.

**Organization: VMWare Software India Pvt. Ltd**

**Project Name:** VC3 (Virtual Command Control Center)

 **Role:** Sr. Cloud Engineer

 **Duration:**  4.4 years

* Implemented 3 Datacenter/Projects from scratch and got recognition for this work.
* Providing Infra/L3 Support for multiple projects.
* Building Servers for new Project including Cluster, Virtualization, MySQL and Application-Server.
* system management software that makes Red Hat infrastructure easier to deploy, scale, and manage across any environment.
* Providing Support for around 3500 servers to maintain SLA, RCA and configuring new Data Center Server/ Infra Setup for New projects.
* Incident, Service Request, Problem and Change Management.
* Configuring VMWare Virtualization including ESXi, vCentre Servers.
* Managing Vmware Cloud Infra, creating networks, gateways, ovdc in vCloud Director.
* **Gitlab/Ansible/Docker/Sworm/Vault/Splunk/ Apache/Nginx etc.**
* Support E2E 700 Vmware Application/Tool support.
* Patching and updating by proxy (RHN 5/6)

**Organization: TEK Systems, India/CA Technology India.**

**Project Name:** NOC Support

**Designation:** Sr. Network Engineer (NOC)

**Duration**: 9 Months

**Job responsibilities:**

* Working on different project assignments and support the network operational issues for different clients.
* Prepare BOM and present to the client to meet his requirements.
* Take care of the network implementation and handover to operations after testing and signoff.
* Administration of Cisco Routers including 7200/3800/3900/ Series routers and Cisco Switches including 4900/3750/3560/37XX series etc.
* Supporting a 24x7x365 production network environment.
* Handling change process, incidents and reports.
* Managing and supporting enterprise EIGRP/OSPF/BGP network.
* Network monitoring and management tools including Wireshark), etc.

**Organization: IBM India Pvt. Ltd.**

**Project Name:** Network Support Operation

**Designation:** SOP (Senior Operation Professional)

**Duration:** 4 Years

**Job responsibilities:**

* Interaction with Vendor and internal team for network optimization and new hardware platform deployment.
* Coordination with vendor TAC support engineer to resolve hardware/software issues.
* Managed large number of network devices in a multi-vendor environment.
* Test and evaluate new solutions for supporting new business requirements and services.
* Handling/guiding team for Network Change Management process for network with the coordination of others team.
* Implementing different test cases on the network element before it handed over for customer implementation.
* Coordinate with onshore support team for customer service implementation and testing.
* Implementing different test cases on the network before the service is handed over to Customer.
* Training on Process and Technical service design model to new team members.

Dashboard report and regular interaction with other function for smooth transition of project.

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**Name:**  Ajay Kumar Singh

**Father’s Name:**  Shri Jagnnath Singh

**Nationality:**  Indian

**Language:** English, Hindi

I am confident on my ability to work in a team & I hereby declare that the information furnished above is true at the best of my knowledge.

**Place: BANGALORE AJAY KUMAR SINGH**