Ghaziabad, UP, 201002, INDIA.

Rahul Kumar Singh

Kubernetes|OpenShift|OVN CNI|DevSecOps|JAVA-J2EE|Spring
|Security|ServiceMesh|Cloud Native|Microservices

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- 11+ Years of rich experience with diversified Techno Engineering portfolio. Long track of Architecting, Designing, Development & Solutioning of wide range of Products & Services including Security solutions.
- Begin career with Enterprise Applications design & development in Java/J2EE domain, system design & development in Storage Domain Product, Public/Private Cloud Platforms (IaaS, PaaS) expertise, Data engineering for IoT Platforms, HCI Product Design Development with OpenStack. Cloud Native expertise on K8S & OpenShift. SME of Container Networks & CNIs for Telco & IT workloads.

Work-Ex Summery.

SEPTEMBER 2012 – PRESENT

Technical Specialist, NEC Corporation India (in.nec.com)

Key Highlights:

- Architect on the transformation of existing monolithic Applications/workloads running over legacy infrastructure to Microservices using **Spring Boot** over the various Container platform (**K8S, OCP**) on public & private cloud. Creating Proposals, participating in RFPs w.r.t. **Modernization & Migration** of existing workloads to target cloud IaaS over K8S.
- Wide range of experience of working for **Web & Enterprise Applications Design & Development** in **JAVA/J2EE & Spring Framework (Boot, IOC, AOP, MVC, Data).**
- Expertise in the **Enterprise Architecting** using the **SOA, OOAD, BPM.** Implemented massage-oriented middleware using **ESB technologies**.
- **Container network expert with thorough deep knowledge of OVN & SDN CNIs**, build team competency to work as SMEs for evaluation & troubleshooting of network solutions and providing troubleshooting around Major CNIs such as **OVN, OVS, MULTUS, OSSM** to Telco & 5G domain.
- Playing key role as a Cloud Architect in Design, Development, Evaluation of OSS based cloud native solutions on Kubernetes & RH OpenShift PaaS over public & private cloud IaaS. Helping pre-sales to pitching the Cloud native solutions in Market.
- SME to contribute on NEC in-house **DevOps** platform/frameworks design, development & Production.

MAY 2011 – SEPTEMBER 2012

Software Engineer, CORBUS (corbus.com)

- Enterprise Applications Design, Development, Deployment, Maintenance | JAVA-J2EE Stack [Struts 2.x, JSP, Servlet, Spring, Hibernate, SQL, ORACLE DB].
- Migration of existing web application to Java based web applications.

Technology Stack1 [DevOps & Cloud Native]

PaaS|IaaS	Kubernetes |RedHat OpenShift|vmware-tanzu|AWS|RHOSP|VMware vSphere
Container Network	OpenShift CNO|OVN CNI [EgressIP, Egress Router CNI, Multicast, Network flows (NetFlow, sFlow), ACL (Network Policy, Egress Firewall)]|SDN CNI|Multus|OpenvSwitch| SRIOV
Cloud Native (Day2)	Backup DR(Velero)|Logging & Monitoring (Elasticsearch, Loki, Fluentd, Grafana Prometheus) |Load balancing (MetalLB, HAProxy)
DevOps (Day1)	Jenkins|Maven|Ant|Docker|Ansible |Linux Shell Script|GitLab|Bitbucket |CKA
Service Mesh	Istio|OpenShift ServiceMesh|Kiali|Jager
Storage	NEC HYDRAstor|HCI| NFS|CIFS|Object Storage (AWS S3, MinIO|Ceph Rados) |Ceph|AWS EBS, EFS| CSI (NetApp Trident)
Security	PKI, SSL|TLS encryption, OAuth, [CSRF|Reflected cross-site scripting (or XSS)], Vulnerability Fix

Technology Stack2 [Design & Development]

Programming Language	Java (JDK8.x)	Python3.x	Go	Shell	Perl
Application Frameworks	Spring Boot, Spring [IOC, AOP, MVC], ORM, Struts2.x, Servlet JSP, Persistent Framework [Hibernate, JPA, iBATIS]	Python Web Framework [Django	Flask]
Design Patterns	OOD Pattern (Creational, Behavioral & Structural), SOA, ESB, BPM, HLD, LLD Sidecar, Operator, Microservice
DBMS	RDBMS [Postgres, MySQL, Oracle 10g], RRD, NoSQL [Mongo, Redis], DB Vacuuming
Web & App Servers	Nginx, WebLogic, JBoss, Tomcat, Httpd, WebSphere
Middleware	ESB (KAFKA, WMB, WMQ), SOA, BPM

Assignments Summary

Project Type	Name & Subsystems	Duration	End Users
Containers Design Development & Evaluation	**OpenShift Container Platform** - Redhat OpenShift Network (CNO & OVN CNI) - Redhat OpenShift Service Mesh (OSSM) - Login & Monitoring in OpenShift (Loki & CLO) - Backup & DR Solution, Container Storage Interface - Network Load Balancer (MetalLB) **MAF** - CI/CD Pipeline System over OpenShift - Integration of keycloak - Billing System Similar to Cloud watch.	**2 Year**	NEC Japan
Modernization of Monolithic Applications	**Daiwa Securities**	**Till Date**	NEC Japan
Product Design & Development	**NEC HYDRAstor** - ClusterPro, NTP, NFS, CIFS, System Monitoring & Control System - License, User Account, Capacity, Network, Node Info Collector. - Management Dashboard	**7 Years**	USA (GP, VISA, USPTO), JAPAN (EX, TX, SA (FNB, Afrihost, Discovery Bank)
Hyper Converged Infrastructure Design & Development	**HCIX** - OpenStack Horizon customization. - Hardware resource provision, Instance provision. - Storage provision using CEPH.	**4 Months**	NEC Japan
IOT Data Platform Design	**DMIDC Visualization** - Hot Path (Real Time) & Cold Path data aggregation using KAFKA broker - Design middleware using Java plugin architecture - Historical data storage in HDFS - Elastic Stack implementation for data visualization	**6 Months**	NEC Japan
Industrial IOT Platform Middleware Design	**Predix System** - Authentication System - Data Analysis system	**8 Months**	NEC Japan
Enterprise Application Design Development	**IAMS-CorbuS** - Design End-to-End Enterprise Application - Breed & breed Product Selector - Breeds Articles of P&G	**1 year**	P&G

Educational Qualification

Qualification	Institute
M.Tech (Software Systems)	BITS Pilani
Bachelor of Computer Application (BCA)	IGNOU
10+2	U.P. Board

Certifications

Certification	Issuing Authority
Certified Kubernetes Administrator (CKA)	Linux Foundation

Personal Information

Father's Name	Kamta Singh
Date of Birth	1st January 1988
Marital Status	Married
Nationality	Indian
Language Known	English, Hindi

Declaration

I hereby declare that the above written Particular are correct to the best of my knowledge.

Date:
Place: Ghaziabad, India   (Rahul Kumar Singh)