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Top Skills

Application Migrations
High Performance Computing (HPC)
Cloud-Native Applications

Certifications

Global Certificate in Data Science
Global Certificate in Data Science
and AI

Kapil Kumar Gupta

Cloud/NFVi/Edge-Cloud Architect & Product Owner | 5G, MEC, O-RAN, Automation, AIOps, Kubernetes, Cloud Modernisation, AI/ML solutions | 14+ yrs exp | ex. Rakuten, Ericsson
Bengaluru, Karnataka, India

Summary

As a meticulous Technical Architect and Product Owner with over 13 years of experience, I have honed my expertise in Cloud/NFVi/Edge-cloud, Multi-cloud, Hybrid Cloud, Cloud Orchestration, MANO, 5G Core, MEC, O-RAN, 5GCore, IMS, Edge computing, AIOps, Technology transformation & integration, Kubernetes, Microservices, Analytics, Data Science, AI/ML, and Program Management. I am a focused, continuous learner, mentor/coach, result-oriented, highly dependable, and detail-oriented solutions architect offering exceptional troubleshooting skills and a talent for developing innovative solutions to unusual and difficult problems.

As a result-driven individual, I have led solution designing, planning, presenting, selection strategy, and development for cloud platforms from scratch. Active participation in responding to RFP/RFIs and leading discussions with partners and cross-team stakeholders.

Moreover, I have strategized the selection of Cloud platforms and determined architectural, and engineering requirements for Edge & cloud computing that includes high-performance edge computing using K8s, distributed cloud deployment for MEC, O-RAN, 5G core, traffic steering, Automation, Edge AI/ML, CI/CD. Analyzing and building a strategy around different opensource (ONF, Aether, OpenNESS, EMCO) products. I have also built a team for Cloud and DevOps experts to build a high-performance Telco cloud for O-RAN, MEC, and 5G apps.

Throughout my career, I have achieved significant accomplishments. For instance, I was instrumental in building a product line called Edge Cloud platform from scratch and responsible for nationwide deployment at 900 edge locations for one of the largest Telecom Service Providers in Europe. The platform can onboard O-RAN, MEC, SDPON, and 5G-Core applications. Additionally, I built an

MVP using AI/ML that detects anomalies in Kubernetes using SVN, MLP, and CNN. The product can generate revenue of 180K USD/year, considering 10K machines, and can be integrated into Cloud, Alops, IOT, and Edge computing.

As a Product Owner/Architect at Radisys, I lead the global scrum team to develop the Edge computing platform for zero-touch POD bring-up and life cycle management for 900 edge clouds.

I develop strategies and architecture for Multi-access edge computing (MEC) that includes high-performance edge computing using K8s, distributed cloud deployment for MEC, Edge/Hybrid/Multi-Cloud, O-RAN, 5G core, Traffic steering, Automation, Edge AI/ML, CI/CD. I also analyze and build strategies around different open-source (ONF, Aether, OpenNESS, EMCO) products.

Experience

Radisys

4 years 4 months

Senior Architect

August 2024 - Present (4 months)

Bengaluru, Karnataka, India

Product Owner and Architect for ECP platform and Network Automation.

Architect

February 2023 - July 2024 (1 year 6 months)

Bengaluru, Karnataka, India

Working Product Owner to build the Edge computing platform and network Automation

Technical Specialist

August 2020 - January 2023 (2 years 6 months)

Bengaluru, Karnataka, India

Working as Architect to develop strategies and architecture for edge and Multi access edge computing (MEC) that include high-performance edge computing using K8s, distributed cloud deployment for MEC, O-RAN, Automation, Edge AI/ML, CI/CD.

- Product Owner to lead the Global Scrum team to deliver edge computing and automation.

- Collaborate with domain, product management, and product engineering teams in solution engineering efforts and provide architectural guidance to cross-functional teams throughout the program lifecycle.
- Led solution designing, planning, CXO presenting, selection strategy and development for cloud platform from scratch.
- Active participation to response RFP/RFI for Edge cloud solutions for different customers with presales.
- Leading solution architecture from pre-sales to field deployment for Tier-1/2 customers across the globe primarily focusing on Edge/Cloud/NFV/5G/FTTH domains.
- Product Owner and solution architect for Global scrum team to develop the Edge computing platform and zero-touch automation and engage stakeholders proactively and ensure successful project outcomes.
- Lead and oversee the end-to-end IT architecture for Edge, and Cloud solutions, collaborating with internal and external partners.
- Design the Backup and restore, resilience, and Monitoring for Edge clouds.
- Develop strategies and architecture for Multi access edge computing (MEC) that's include high performance edge compute using K8s, distributed cloud deployment for MEC, O-RAN, 5G core, Traffic steering, Automation, Edge AI/ML, CI/CD.
- Studying next generation technologies, conceptualizing, and prototyping solutions.
- Built team for Cloud and DevOps experts to build high performance telco cloud for O-RAN, MEC and 5G apps.
- Create testcases to evaluate the multiple cloud platform.
- Responsible to lead the discussion with partners and cross team stakeholders.
- Design solution for logging & monitoring and implement cloud platform security.

Rakuten India

Senior Technical Lead

December 2018 - July 2020 (1 year 8 months)

Bangaon Area, India

RCCP Cloud-Native Kubernetes cluster design and deployment for production for vRAN and MEC applications using Enhance performance awareness EPA (SRIOV, Multus, NUMA node, CPU pinning, HugePages).

Led distributed Cloud monitoring, hierarchical dashboards, and alarms enrichment & co-relation across the network that includes more than 4000 data

centers (Edge and central sites). And implement HW monitoring using IPMI.
Technology stack Prometheus, Kafka, Collectd, Graphana, ELK.

Led Rakuten mobile network FUT launch to ensure all 100+ datacenters integration with OSS for FCAPS.

Build logic to manage very large data from 4000 Edge site to display NFVi KPI's metrics with near real time.

HCL Technologies

Technical Lead, ERS[Engineering and R&D services]

April 2016 - December 2018 (2 years 9 months)

Noida

- 1.OpenStack, Kubernetes, VMware Cloud deployment and operation using SRE approach
- 2 ONAP lab design & deployment on OpenStack as well as on VIO(VMware integrated OpenStack)
- 2.VMware Datacenter design and deployment with vcenter, NSX, VIO.
- 3.Openstack datacenter lab design and deployment.
4. Open network automation platform ONAP deployment on openstack and fix issue.
- 5.Deployment and configuration of Metaswitch Clearwater VNF(sbg/p-cscg, scscf(sprout) on vmware vcenter.
6. Integration of Metaswitch with spirent HSS and Homestead.
7. Complete ims lab deployment (DNS,ntp,esxi,vcenter,ims node) on vmware cloud.

Ericsson India Ltd

Customer Support Engineer

June 2013 - October 2015 (2 years 5 months)

The PLATFORM on which I have worked with Ericsson.

- MSS/MGW Ericsson APZ 2 12 60/R 13.2/R14.1/R6.3.2.0D
- HLR/RHLR Ericsson AXE810 Switch APZ 2 12 60/ R 13.2
- STP/NPDB/FNR Ericsson AXE810 Switch AZZ 2 12 60/R 13.2
- HSS Ericsson 2011A
- CSCF Ericsson 2011A
- SBG Ericsson 4.0

Nokia Siemens Networks

NSS configuration

August 2011 - June 2013 (1 year 11 months)

Noida Area, India

The PLATFORM which I have worked with Nokia.

- MSS on DX200 and ATCA
- HLR on DX200
- MGW on IPA and ATCA

Ericsson

NSS ENGINEER

2009 - 2011 (2 years)

Worked as a Field maintenance engineer in wireless switch in Airtel Meerut location(UPW). This comprises of O&M of many nodes BSS/NSS/HLR/STP/MSS/MGW.

Work Performed as Switch Engineer for Ericsson Wireless MSC (AXE 810)

-- APG, CP fault and RP fault Rectification.

#Configuration of B No. routing plans, charging plans, Short Codes openings, Roaming definitions, GT openings etc.

#Announcement loading.

#Fault Listing and their rectification of cards in MSC, BSC, Media Gateway and their replacement.

#Familiar with all types of Call Testing Scenarios: Pre-Paid, Post-Paid, VAS.

#Responsible for O&M of handover nodes from project. There testing and AT.

#Responsible for Augmentation of Interfaces in Nodes based on utilization.

#Responsible for maintaining KPI of several BSS/NSS nodes.

#Responsible for resolution of POI/Other operator outages.

#Responsible for resolution of GB link/OSS link outages.

#Responsible for Hardware related alarms in Network Nodes.

#Responsible for successful migration of BSS Nodes as per plan provided by DNP.

#Preventive and Corrective Maintenance of MSC/BSC/STP/HLR and other Core Elements.

Education

INSAID

PGP, Data Science and AI · (January 2020 - July 2022)

INSAID

GCDAl, Data science · (2020 - 2020)

University of Rajasthan

Btech, electronic and communication · (2005 - 2009)