

**KAPIL KUSHWAHA****Phone:** +91 9717536222**E-Mail:** kapilkushwaha1@gmail.com**Skype ID :** kapil.kushwaha**PRESENT ADDRESS:**H309, Gopalan Habitat Splendour,  
ITPL Road, AECS Layout, Marathalli  
Bangalore, 560037**PROFILE SUMMARY**

*A professional, skilled in blending creative intellect, insight , Management, Design & Engineering  
Mobility, Machine Learning, Analytics and Digital Enablement platforms evolutions  
Targeting in **Machine Learning, Neural Networks, IOT , M2M , ICT , Analytics, Cloud preferably in India & Abroad***

**HIGH LIGHTS**

- A result-oriented professional ,with rich experience in Digital Enablement, Telecommunication and IT Solutions
- Strategic leadership in demonstrating products ownership and meet business objectives.
- Experience working with Executive Management, R&D, Vendors, Business Development and the Sales
- Experienced in working with Product Strategies, Research, Idea to Product and Proof of concepts.
- Experience in System Design and Architecture, General Management, Capability & Team Building
- Experienced in designing high complex BSS/OSS, Middleware, Machine Learning, IOT, M2M, Big Data, Analytics
- Experienced with solution design and development of network capacity planning tools development & operations.
- Possess a blend of technical savvy, big picture vision, leadership and drive to make the vision a reality,
- Manage the complete product offerings, service delivery, integration, analytics from concept to roll off.
- Lead the process of delivering, life cycles, representation and demonstration across boards.
- Evaluating Technical Challenges & Spearheading project initiatives in multiple lines of Business ( LOBs)
- Implementation methodologies, industry best practices and guide customer to the best solutions.
- Driving Innovations, brainstorming, negotiation, transformation & change management aligned to business
- Creation of Contents, automations & tools development, estimation, cost optimization, levers for delivery.
- Sound technical knowledge in system and software designs with experience stretches from hard-core technical development to managing large scale operations.
- Experience in building good Engineering teams and successfully managing large size engineering teams and projects.
- Sound knowledge in building analytics platform with Machine Learning, IOT , integration over cloud
- Sound Knowledge in transformation across complex product with nfv, sdn, virtualization, oss, bss.

**COMPETENCIES & KEY SKILLS**

|   |                                       |                                     |
|---|---------------------------------------|-------------------------------------|
| <i>Project &amp; Program Management</i> | <i>Quality Management</i>             | <i>Training &amp; Development</i>   |
| <i>Capacity / Operability Ex</i>        | <i>Escalation Management</i>          | <i>Managed Services</i>             |
| <i>Process Optimization</i>             | <i>Resource Management</i>            | <i>Vendor Management</i>            |
| <i>Cost Optimization</i>                | <i>Productivity &amp; Performance</i> | <i>Telecom OSS, BSS, EMS, BPM</i>   |
| <i>Technology Management</i>            | <i>Analytics, Big-Data, Hadoop</i>    | <i>Machine Learning, IOT, Cloud</i> |

**WORK EXPERIENCE**

|                      |  |
|----------------------|--|
| <b>Feb17-Present</b> | <b>Infinite Computer Solutions, Consultant for Product Implementation (Analytics)</b>  |
| <b>Aug16 – Feb17</b> | <b>Lumbini Software , Consultant for Cloud Analytics Product</b>                       |
| <b>Aug'15-Jul'16</b> | <b>Reliance Jio, Navi Mumbai as Sr. Solution Architect (Design &amp; Architecture)</b> |
| <b>Mar'15-Aug'15</b> | <b>Ericsson India Ltd., Gurgaon as Sr. Solution Architect(ICT)</b>                     |
| <b>May'07-Mar'15</b> | <b>IBM India Pvt. Ltd., Gurgaon as Sr. Technical Manager ( Telecom OSS / BSS )</b>     |

**Highlights:**

- Good Experience in Telecom OSS / BSS Solution Delivery , integration for digital technology enablement for ICT, IOT
- Good Understanding on Transformation of Managed Services for Cloud and Data Centre with SDN, NFV
- Good Understanding of AT&T CSP Technology Strategies Future Mode of Operation, Domain2.0, ECOMP
- Developed skills M2M/IOT Protocols like MQTT, COAP, LW-M2M, Low Power networks LoRaWAN, 6LoWPAN, NBIOT
- IBM Bravo Awards 3 Times for Innovative solutions in areas of cloud, automation, execution of high complex projects.
- Received additional projects such as Managed Hosting ownerships from AT&T on the basis excellent services and on-time deliveries of projects under the supervision; suggested enhancements for Service Assurance LTE, Mobility Applications, and Cloud Transitions to improve the application performance by optimizations.

**Good Knowledge of Telecom, IOT, M2M, Machine Learning, Analytics**

- IOT, M2M, Cloud, Analytics, Machine Learning, Data Centre Technologies, AT&T DOMAIN2.0, ECOMP, Open Stack,
- Telecom Standards, BSS/OSS Applications, EMS, NMS Integrations
- Telecom Network Managements and capacity planning , SND, NFV, Orchestration
- Architecture Methods, TOGAF, PRISM, COBIT, NPD, Middleware, ICT Apps
- Solutions for System Performance and Optimization, Disaster Recovery, Data Collection, IPDR, CDR, Monitoring , Analysis,
- Integration patterns, Design Patterns, Messaging (ActiveMQ, Kafka, Camel )
- Relational ( MySQL, JDBC, ORM ) and no-SQL ( Mongo DB, Cassandra )
- Strong in Java and modern scripting languages (Ruby, Python, Groovy)

- Big Data , Hadoop, Mahout, Spark , Machine Learning, AI Algorithms, Analytics R Programming,

## PREVIOUS EXPERIENCE

|               |   |
|---------------|---|
| Nov'06-May'07 | Mascon Global Limited, Bangalore as Technical Specialist                |
| Jan'06-Nov'06 | Xius (Megasoft) India Ltd., Hyderabad as Team Lead                      |
| Dec'04-Jan'06 | Redknee Technologies, Pune as Soft Engineer                             |
| Aug'99-Nov'04 | Indian Telephone Industries Ltd., Mankapur as Asst. Executive Engineer  |
| Mar'97-Jul'97 | IIT Kanpur, Summer Training (Machine Learning - AI, NN and Algorithms ) |

## SUMMARY OF WORK

- Building high performance team, motivation, organizing, program initiatives, Project management.
- As a Senior Solution Architect for Mobility Application, Integration, Multiple Stacks OSS, BSS, Proof Of Concepts
- Delivered Solution for high complex Transformation of BSS , ICT Enablement, Integration of Product Catalogue, Content Billing, ICT application registration, Google API Integration, Analytics, Middleware, web services optimization.
- Review design, architecture, development, test and delivery across multiple programs.
- Resource hiring, planning, organizing, Productivity and performance management
- Demonstrated ability to learn new and complex technologies so that concepts can be communicated at all levels.
- Nokia CeMOD, PRMA- Analytics Platform, Integration with Traffica, NetAct, RTB POC for T Mobile US, Telefonica Brazil
- Ericsson OSS/BSS , Charging System 6.0 , Ericsson Product Portfolio , ICT Enablement, Integration of Analytics POC.
- Machine Learning, Big Data, Analytics, KPI, Middleware Application solution design & Architecture, System Integrations.
- BSS integration with Retails SAP CRM, PIMS, ERP integration for ICT enablement for In App, Online Sales
- Device Management, Auto Config Server (ACS) , Online Charging System(OCS), Multi OCS, Multiple OSS/BSS, Hooz IT Caller ID-Android/IOS, Experience Store ( In App / Online Shopping ) , Middleware's
- Delivered AT&T Cloud technologies for Iaas, Paas, Saas, Domain 2.0 and ECOMP for AT&T, Managed Services
- Delivered Transformation projects for AT&T Future Mode of Operations involving SDN and NFV roadmaps.
- Solution implementation with GIS technology, business and application solutions for Airtel Africa, Mobily.
- Solutions for 3GPP based applications with DIAMETER protocols (Ro, Rf, Gy, Gx, Sy etc)
- Expert System Development for System Integration and Testing
- Telecom network capacity management framework with Data Collection and monitoring , API for LTE, GSM.
- SAP CC/ CI based billing integration for LTE, FTTX and Performing E2E Use Cases validation.
- TIBCO ESB Integration, 3<sup>rd</sup> Party like IDAM, Single SignOn, Payment Gateways, ERP, CRM, Google Apps
- Disaster Management Solution Design & Architecture for AT&T DR Levels, Network DR, Managed Services

*Pls. find the annexure for the assignments managed:*

## EDUCATION

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| 1998 | B.Tech. (Computer Science & Engineering) with 74%<br>Mahatma Gandhi Chitrakoot Gramodaya University, Satna MP<br>MP State Govt Engg College. |
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## PERSONAL DETAILS

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|--------------------|--|
| Date of Birth:     | 26 <sup>th</sup> September 1975  |
| Languages Known:   | English, Hindi   |
| Permanent Address: | H309, Gopalan Habitat Splendour, ITPL Road, AECS Layout, Bangalore, KA, IN 560 037 |
| Passport Status:   | Z3188477, Validity May, 2025.  |

## TRAININGS

- Nokia – Customer Experience Management On Demand (CeMOD), Predictive Marketing & Analytics ( PRMA )
- Ericsson - Big Data, NoSQL, Hadoop/MapReduce, Mahout, Spark, Charging System 6.0,
- IBM L&K – Cognitive Computing, Business Intelligence
- IBM L&K - Leadership ,Program & Portfolio Management, Application Management Services,
- IBM L&K World Wide Project Management, PRISM, ITIL, COBIT, MS Project,
- IBM ITUP - Integrated Test Unified Process , Software Quality Assurance Process
- ITI Limited – CDOT DSS, GSM, OMCR
- IIT Kanpur – Machine Learning ( Artificial Intelligence & Neural Networks)

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## KNOWLEDGE PURVIEW

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### MANAGEMENT SKILLS

- Leadership, Negotiation, Change, Transformation capabilities
- Strategies, Planning, Estimation, Delivery
- Program & Project Management
- Brainstorming, Innovation, research, roadmaps
- Creative Problem Solving, Metrics, KPIs
- Working with R&D, Architects, Development, Delivery
- Productivity & Capability Assessments
- Manage resources, team distributed in global geographies
- Governance, Process, Reviews, Presentation, demonstration

### TELECOM SKILLS

- Wireless Communication Technologies ( 2G/3G/4G/VoLTE)
- Low Power Wireless : NB-IOT, LPWAN, LoRaWAN
- Telecom Protocols : TCP / IP, SS7, Radius/Diameter
- IN Tech – SS7/INAP,TCAP, MAP, CAMEL
- Video : IPTV, Streaming Media
- Spec – Open Stack, ONF, TMN, TM Forum, ETOM, TAM, SID
- Standards: ITU-T ( M/Q/H/Y), ETSI, GSMA
- Capacity planning using Orchestration in SDN, NFV
- FAB, FCAPS - Service Fulfilment, Assurance, Billing, CRM, POS
- Telco Billing Offline/ Online Charging, HPIUM, OpenView
- LAMP, WAMP, TIBCO, Oracle, Scripting
- Managed Services, Automation & Disaster Recover
- Data CDR, , Big Data, Analytics, KPI, R Programming, Hadoop
- Nokia CEMOD, PRMA, RTB, Traffica

### CLOUD SKILLS

- Cloud - PAAS, SAAS , Cloud Billing
- Virtualization – VMware ESX, Vsphere NSX
- Xen Cloud Platform, GAE, Azure
- KVM, MapReduce, RESTAPI, Hadoop, Orchestration
- AT&T - DOMAIN 2.0, ECOMP
- Solution Approach for OSS, BSS on Cloud

### MACHINE LEARNING & ARTIFICIAL INTELLIGENCE

- Rule Based Data Prediction
- Machine Learning in telecom system management
- Supervised/Unsupervised Learning,
- Used Feedforward in context of backpropagation,
- Kohonen Self Organizing Map, Linear Vector Quantization,
- Recurrent Neural Network – Hopfield, Boltzman
- Modular Neural Networks – CoM, ASN

### Big Data & IOT

- Integration platforms, IOT Platforms, APIs
- LoRaWAN, NB-IOT, LPWAN, 6LoWPAN
- HTTP / REST, WebSocket, MQTT, SMPP
- RFID, Bluetooth, Zigbee
- Integration Architecture – IOT Edge Computing
- IOT Cloud, Data Hubs
- BlueMix, AWS, RTOS MQX, Azure
- Groovy, ruby on rails, python,
- Axeda, Thingworx, Wind River, SCADA
- LWM2M, DLMS/COSEM, OMA-DM, OneM2M
- Hadoop - Sparx, mahout,

### MIDDLEWARE & SYSTEM INTEGRATION

- WebSphere EAI , TIBCO ESB
- Service Oriented Architecture SOA
- Integration Patterns for SAP, NFS, RPC, Web Services
- J2EE, EJB, JS Framework, Java API, JCP
- Web 2.0, HTTP, REST, WSDL, XML,XMPP
- Stacks - LAMP, LEMP,WAMP, nginx,

### MOBILITY SOLUTION DESIGN

- Android and IOS - Native, Hybrid App
- Android Java,IOS ObjC, Cocoa, PhoneGap, Cordova
- JS Frame work, Bootstrap, PHP, Angular js, JQuery, Ruby
- Google Analytics, Flurry, Crashalytics, Performance , tsung
- MADP, MEAP, MBaaS

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## ANNEXURE

**Organization:****Clients:****Role:****Nokia Solutions and Networks**

Telefonica Brazil, T Mobile US

Major responsibility Includes:

- Understanding Business requirements, Identifying opportunities enhancements
- Analytics Requirement Analysis, Reports User Interface Design
- Solution Design & Architecture, Project Planning, Estimation
- Integration with Traffisc, RTB, NetAct
- System integration, Web Services Design, RESTful Interface for digital enablement
- Middleware & Microservices design for Short Term Storage, Long Term Storage
- KPI Formula, Query, Views design

**Organization:****Clients:****Role:****Reliance Jio Core**

Reliance Jio Infocomm

Major responsibility Includes:

- Product, Resource, Change, Negotiation, Capability Management
- Understanding Business requirements, Identifying opportunities enhancements
- Requirement Analysis, Handling RFC/RFP, across Multi BSS OSS, ICT App, Middleware
- Solution Design & Architecture, Project Planning, Estimation , Product Evolution roadmaps, gap analysis,
- Handling BSS/OSS, Middleware, IOS, Android Solution Delivery
- System integration, Web Services Design, RESTful Interface for digital enablement
- Third Party ISV Integrations like SSO, Google Apps, Payment Gateways, DBs
- Proof Of Concept development and demonstration
- End to End Quality Assurance , Release Management
- Defining the scope, WBS, business, solution , technology architecture,
- delivery process, verification & validation Process, quality guidelines
- Driving innovative solution, ideations, brainstorming, creative problem solving
- Demonstrating White papers, Artefacts for Solution, specification, Security
- Key Solutions : Phonetic algorithm, data dictionary based name pattern matching, Performance Optimization of Web Services, Session Management, SAP Integration

**Organization:****Client:****Role:****Ericsson India Ltd.**

CS6.0 Product

**Senior Solution Architect**

- Ericsson BSS Solution map , Delivery plan
- Transformation of BSS CS6.0 for ICT with Big Data, Cloud
- Evolution Roadmaps to CS 6.0

**Organization:****Clients:****Role:****IBM India Ltd. (Global Business Services)**

Etihad Etisalat Mobily Telecommunication

**Senior Solution Architect**

- Governance and Quality maturity model, Process Models
- Requirements Analysis, Solution, Design and Delivery Planning
- Technical Consultancy & System Integration
- Leadership, Resource, Team Building, Capability Matrix,
- New Proposal, Feature Roadmaps & Enhancements
- End to End Quality Assurance , Release Management
- Delivery Process, Verification & Validation Process, Quality Guidelines
- Ideation, Brainstorming, Change, Negotiation, Transformation Management

|                       |  |
|-----------------------|--|
| <b>Organization:</b>  | <b>IBM India Ltd. (Global Business Services)</b>   |
| <b>Client:</b>        | <b>Reliance Jio</b>  |
| <b>Role:</b>          | <b>Senior Solution Architect</b> <ul style="list-style-type: none"> <li>• Solution Design &amp; Implementation for OSS / BSS E2E Use Cases,</li> <li>• Architecture Design &amp; Review, System Integration, Process</li> <li>• Quality Engineering, C Level representation of delivery roadmaps,</li> <li>• Strategic Planning for phased delivery. Team &amp; Capability Building</li> <li>• Handling ISV , System Integration like LTE, FTTX, TIBCO, SAP CC/ CI, CRM, RAFM</li> </ul>   |
| <b>Organization:</b>  | <b>IBM India Ltd. (Global Business Services)</b>   |
| <b>Client:</b>        | <b>Airtel Africa</b>   |
| <b>Role:</b>          | <b>Unified GIS Product</b> <ul style="list-style-type: none"> <li>• GIS solution design &amp; architecture with disaster recovery</li> <li>• System Integration with Business Analytics, Service Assurance</li> <li>• Reporting Requirements, System &amp; Business Process Development,</li> <li>• Solution Architectures - Enterprise, Business, Solution, Infrastructure &amp; Technology Strategic Planning, Evolution Roadmaps,</li> <li>• Verification &amp; Validation Process, Quality Guidelines, Toll Gates</li> <li>• Dev-Test-PreProd Environment set-up, Software &amp; Tools Identification</li> <li>• Proof of concepts demonstration for 17 OPCO'S Africa</li> </ul>   |
| <b>Organization:</b>  | <b>IBM India Ltd. (Global Business Services)</b>   |
| <b>Client:</b>        | <b>AT&amp;T USA</b>  |
| <b>Role:</b>          | <b>Delivery Manager (Managed Services LTE, Cloud ECOMP, FMO, VPN, Disaster Recovery)</b> <p>Business &amp; enterprise managed services, VOIP, VOLTE, GIS, service assurance, e2e business process, managed application system management, system integrations. OSS/BSS Architecture &amp; design solutions, quality engineering process, strategic planning delivery process, quality guidelines, ADM process, team building, driving innovative solutions, brainstorming, predictive analytics, defect management systems, trend analysis. Managed Services for network capacity planning and management under future mode of operations FMO. Managed Services for NDR, DR.</p>   |
| <b>Organization:</b>  | <b>Mascon Global Limited</b>   |
| <b>Client:</b>        | <b>Nortel Networks</b>   |
| <b>Role:</b>          | Solution design of LDAP implementation for Product HSS on IBM Infrastructure<br>Product Apertio, LDAP implementation of HSS, verification & validation   |
| <b>Organization:</b>  | <b>Redknee Technologies</b>  |
| <b>Client:</b>        | <b>Nortel Networks</b>   |
| <b>Role:</b>          | Solution validation, Implementation of CRM, Billing, Messaging Products  |
| <b>Organization:</b>  | <b>R&amp;D - ITI LIMITED</b>   |
| <b>Client:</b>        | <b>BSNL</b>  |
| <b>Role:</b>          | <ul style="list-style-type: none"> <li>• OSS/ BSS and VAS Requirements Analysis, Solution design and implementation</li> <li>• RF Planning &amp; Optimization and planning using Agilent Tools</li> <li>• Analytical Report Solution for Telecom network capacity solution design</li> <li>• Analytical Report Solution for BSS Radio Network Optimization</li> <li>• Developed API for data collection and monitoring for Analytical Reports</li> <li>• OMCR integration for BSS Radio Access</li> <li>• BSS Radio Network Optimization Solution over OMCR HP OpenView</li> <li>• Expert System Development for DSS QA – LCC, SSH Modules</li> <li>• EProcurement System Java Based Solution, Integration with ERP</li> </ul> |
| <b>Organization :</b> | <b>IIT KANPUR</b>  |
| <b>Role:</b>          | <b>Research Associate</b> <ul style="list-style-type: none"> <li>• Machine Learning Algorithms Proof Of Conepts</li> <li>• Application of Artificial Neural Networks for Pattern Recognition</li> <li>• Programming for Supervised &amp; Unsupervised Learning, Neurons, Input/Output</li> </ul>   |