

# SANDEEP KUMAR

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## Experience & Key Achievements

**Wipro Technologies(IND) Principal Architect** **May 2019 – Present**  
**Client- Telstra – AUS (Telecom) | PCF | B2B | Web & Mobile Solution**

- Enhanced existing Legacy Application architecture (B2B ,retail) to work with ABAC / RBAC (Attribute/role based access control) systems.
- Working in a portal integration team of Enterprise architects to study and solutioning of 80+ external B2B portals (designed with varied tech stack) for improvement of their fragmented enterprise experience and providing a common entry point to customers/users with SSO.

**Client- Schlumberger – IND (Oil & Gas) | GCP | Orchestration layer**

- Scaled Kubernetes (Google cloud) pods services to handle 400x more user requests, by designing and executing Gatling load test cases and setting up Grafana dashboard for live container's status.
- Improve data performance by 2x by refactoring Cassandra yaml's parameters.

**Zensar Technologies(IND, SA) Solution Architect** **Feb 2018 – May 2019**  
**Client- TFG – SA (Retail) | E-Commerce | AWS | B2E Mobile Solution**

- Design a physical and logical 3 tier architecture, ensuring offline queues, limit max data requirement to ~5 kb in a single session (Using LWM2M protocol strategy by maintaining status trees). And leading a team of 14 developers.

**Sapient Corporation (IND) Technical Architect** **May 2017 – Feb 2018**  
**Client- Bed Bath & Beyond – USA | E-Commerce | B2C Mobile Solution**

- PCCI- DSS certified gateways integration (Debit, Credit, PayPal) in mobile app.
- (Profiling) Improve UI rendering performance from 36ms to ~ 17ms by using model managers, Loaders for a-sync threads and event buses (Green robot Lib).

**HCL Technologies Ltd (IND) Sr. Tech Lead** **Mar 2015 – May 2017**  
**Client- Cisco – USA | B2E Mobile Solution**

- Writing complete security layer for mobile app, including certification pinning to clear BURP suit's MIMA test.
- Client- Intel - IND | IOT | Mobile & Embedded Solution**
- Writing network layer with OMADM protocol and later migrate to LWM2M.
  - Modified MQTT client and MQTT broker for native android app. Writing device discovery and provisioning mechanism.

**Tech Mahindra Ltd (IND) Tech Lead** **Feb 2014 – Mar 2015**  
**Client- Telstra - AUS | STB | B2C Mobile Solution**

- Writing UDP (M-Search packet) based device discovery. Remote scheduler for recording a certain TV input (Serial/ Movie/ News / show), FFmpeg Player integration.

**HCL America (at Microsoft – USA) SDET** **Jan 2010 – Feb 2014**  
**Window Mobile OS**

- Writing functional and feature test suits. Reduced manual efforts by ~60%.
- Writing application's compatibility TCs for window platform, which helps in ramp-up of 10K applications in 1.5 weeks.

## Summary

**15+** years of overall experience in designing and solutioning both B2B and B2C Mobile & Web applications in various domains (Retail, healthcare , banking etc.) and technologies (IOT , AI /ML). Over both Native (Android) and Hybrid (Angular / JS ) frameworks. Including up-coming securities / protocols and Payments norms .

## Roles & Responsibilities:

- Responsible for a scalable architecture with high maintainability, Considering client requirement and client business areas.
- Engaging client with new solutions / technologies and trends by creating multiple POCs independently .
- Introducing new Security norms and protocols in application to help achieve the market standard and safety guidelines .
- Maintaining internal Agile/ Lean ecosystem for code quality and merging strategy.
- Maintaining complete CI/CD ecosystem to maximize automation in running builds and test suits.
- Participation in Technical recruitment of dev, tech leads and Architects.
- Mentoring and leading developers.
- Participation in Technical RFPs.

## Skills Set

**Programming Languages:** Java.

**Working knowledge:** C, C++, Python, Go.

**BE & FE Frameworks/Technologies:**

**-Mobile:** Native (Android), Hybrid (React, Ionic, Angular)

**-Web & BE:** J2EE (Servlet, Spring, Hibernate), Node JS, Nest JS, HTML, CSS/LESS/SASS, JS/TS

**API's Tools:** Post Man, Swagger, Burp Suit.

**DevOps - Tools & Technologies:** Kafka, Elastic search, Grafana, Gatling, Docker, Kubernetes, Embedded (Intel Arduino) boards, CI/CD (Jenkin), Sonar cube.

**Data Bases:** Casandra (CQL), Amazon S3, Dynamo DB, RDB (Oracle, My SQL, SQLite)

**Cloud Services:** Amazon Web services (AWS – IOT, AWS), Google cloud (Kubernetes).

**Protocols:** IOT (MQTT, DDS, CoAP), Web (HTTP/S, SOAP, KSOAP, RTSP, FTP, REST).

**Operating System:** Macintosh, Embedded Linux (Yocto), Window, Android.

**SCM:** SVN tortoise, GIT, Source depot, Bit Bucket, VSTS.

<ul style="list-style-type: none"> <li>Automation of sim provisioning module and address book app. Optimizing code to ~4000 lines from ~7000 lines by creating common utilities' and refactoring the architecture (by introducing design, patterns and principals).</li> </ul> <p><b>HCL Technologies Ltd (IND) Sr. Software engineer      May 2008 – Jan 2010</b>  <b>Streaming App  Mobile</b></p> <ul style="list-style-type: none"> <li>J2ME player integration for live streaming. Animated menu with response time of ~15ms (use thread management similar to thread pool concept of Android).</li> </ul> <p><b>Merk Technologies   Backend   J2EE</b></p> <ul style="list-style-type: none"> <li>Writing crawlers in python, data queries in Hibernate and portal's features in Spring.</li> </ul> <p><b>PAXCEL Tech. Pvt Ltd (IND) Software Engineer      Apr 2007- May 2008</b>  <b>J2ME Mobile App</b></p> <ul style="list-style-type: none"> <li>Offline storage queue for request &amp; response. Multiple screen designing and writing parser models.</li> </ul> <p><b>AVS Embedded Solutions(IND)      Aug 2005 – Apr 2007</b>  <b>Trainee (Software Engineer)   J2EE</b></p> <ul style="list-style-type: none"> <li>Servlet and JDBC/ODBC connection for request / response handling.</li> <li>Crone jobs over servers for regular SMS of NAVs sending to users. Weather and google navigation API integration. Consuming SOAP services and writing parsers over XML data.</li> </ul>	<p><b>Machine Learning libs:</b> Tensor flow, NumPy, Pandas, Matplotlib</p> <p><b>DEGREE &amp; CERTIFICATIONS</b>  <a href="https://github.com/SandeepKumarGulati1983/myCerts">https://github.com/SandeepKumarGulati1983/myCerts</a></p> <p><b>2020</b> Microservices , Node JS , Splunk, Agile, Architecture component.  <b>2019</b> Machine learning.  <b>2007 - SCJP</b> (Sun certified Java Programmer)  <b>2001-2005 B. Tech</b> in Electronics and communication (ECE) – 70%  <b>Language Certificates:</b> Korean (Basic), IELTS (English)</p>
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Key experienced areas		
Mobile Solutions	Embedded Solutions	Cloud Skills
<ul style="list-style-type: none"> <li>✓ Android TV and STB based solutions</li> <li>✓ Secure Health and Banking sector's solutions</li> <li>✓ E-commerce solutions including payment gateway's norms</li> <li>✓ Device management (DM) solutions</li> </ul>	<ul style="list-style-type: none"> <li>✓ Automobile solutions including AOSP compilation for multiple embedded Board.</li> <li>✓ YOCTO based enhancement and Recipe's integrations for IOT solutions.</li> <li>✓ Build script for multiple boards and android devices.</li> <li>✓ Docker based development</li> </ul>	<ul style="list-style-type: none"> <li>✓ Kubernetes configuration.</li> <li>✓ Containers and pods configurations.</li> <li>✓ Loggers and containers dashboard setup.</li> <li>✓ No SQL configuration and services set up for access over applications.</li> </ul>