




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's configuration yaml parameters.

Zensar Technologies(IND) *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.
- Leading an initiative for Machine learning based RFP responses and capability building.

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 **March 2015 – May 2017**

Client- Cisco – USA | B2E Mobile Solution

- Wrote complete security layer for mobile app, including certification pinning to clear BURP suit's MIMA test.

Client- Intel - IND | IOT – Java JNI| Mobile & Embedded Solution

- Wrote network layer with OMADM protocol and later migrate to LWM2M.
- Modified MQTT client and MQTT broker for native android app. Wrote device discovery and provisioning mechanism.

Tech Mahindra Ltd (IND) *Tech Lead* **Feb 2014 – March 2015**

Client- Telstra - AUS | STB |JNI Android| B2C Mobile Solution

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

HCL America SDET **Jan 2010 – Feb 2014**

Client- Microsoft | Window Phone

- Leading Self Host acceptance and Experience testing team (SHA / SHER) for Window phone in MS headquarter (Redmond, WA, USA)
- Manually Executed , analysed and raised bugs for application's compatibility TCs scripts over window platform, which helped in ramping-up of 10K applications in 1.5 weeks.

Summary

16+ years of overall experience in designing and solutioning both B2B and B2C Mobile applications in various domains (Telecom, Retail, healthcare , banking etc.) and technologies like (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.

Skill Set

(Hands-On) Programming Languages:

Java.(Core , J2ME , J2EE)

Working knowledge: C, C++, Python, Go, JS/TS (Angular, React, NodeJS).

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.

<p>Client- T-Mobile Android</p> <ul style="list-style-type: none">Wrote functional and feature test suits/ cases in Robotium. Reduced manual efforts by ~60%.Automation of sim provisioning module and address book app. Optimizing code from ~7000 lines to ~4000 lines by creating common utilities’ and refactoring the architecture (by modifying/applying design, patterns and principals). <p>HCL Technologies Ltd (IND) Sr. Software engineer May2008 – Jan 2010</p> <p>Client- Microsoft – offshore Streaming App</p> <ul style="list-style-type: none">J2ME player integration for live streaming. Animated menu with response time of ~15ms (use thread management similar to thread pool concept of Android). <p>Client: Merk Technologies Backend J2EE</p> <ul style="list-style-type: none">Wrote crawlers in python, data queries in Hibernate and portal’s features in Spring. <p>PAXCEL Tech. Pvt Ltd (IND) Apr 2007- May 2008 Software Engineer Mobile App J2ME</p> <ul style="list-style-type: none">Offline storage queue for request & response. Multiple screen designing and wrote parser models. <p>AVS Embedded Solutions(IND) Aug 2005 – Apr 2007 Trainee (Software Engineer) Java,J2ee</p> <ul style="list-style-type: none">Servlet and JDBC/ODBC connection for request / response handling.Crone jobs over servers for regular SMS of NAVs sending to users. Weather and google navigation API integration. Consuming SOAP services and wrote parsers over XML data.	<p>Data Bases: Casandra (CQL), Amazon S3, Dynamo DB, RDB (Oracle, My SQL, SQLite)</p> <p>Cloud Services: Amazon Web services (AWS – IOT), Google cloud (Kubernetes).</p> <p>Protocols: IOT (MQTT, DDS, CoAP), Web (HTTP/S, SOAP, KSOAP, RTSP, FTP, REST).</p> <p>Operating System: Macintosh, Embedded Linux (Yocto), Window, Android.</p> <p>SCM: SVN tortoise, GIT, Source depot, Bit Bucket, VSTS.</p> <p>Machine Learning libs: Tensor flow, NumPy, Pandas, Matplotlib</p> <p>Degree & Certifications (My Certificates)</p> <p>2020 Microservices , Node JS , Splunk, Agile, Architecture component.</p> <p>2019 Machine learning.</p> <p>2007 - SCJP 1.5(Sun certified Java Programmer)</p> <p>2001-2005 B. Tech in Electronics and communication (ECE) – 70%</p> <p>Agile - CSPO</p> <p>Language Certificates: Korean (Basic), IELTS (English)</p>						
<p>Key experienced areas</p> <table><tr><th>Mobile Solutions</th><th>Embedded Solutions</th><th>Cloud Skills</th></tr><tr><td><ul style="list-style-type: none">Android TV and STB based solutionsSecure Health and Banking sector's solutionsE-commerce solutions including payment gateway's normsDevice management (DM) solutions</td><td><ul style="list-style-type: none">Automobile solutions including AOSP compilation for multiple embedded Board.YOCTO based enhancement and Recipe’s integrations for IOT solutions.Build script for multiple boards and android devices.Docker based development</td><td><ul style="list-style-type: none">Kubernetes configuration.Containers and pods configurations. Loggers and containers dashboard setup.No SQL configuration and services set up for access over applications.</td></tr></table>		Mobile Solutions	Embedded Solutions	Cloud Skills	<ul style="list-style-type: none">Android TV and STB based solutionsSecure Health and Banking sector's solutionsE-commerce solutions including payment gateway's normsDevice management (DM) solutions	<ul style="list-style-type: none">Automobile solutions including AOSP compilation for multiple embedded Board.YOCTO based enhancement and Recipe’s integrations for IOT solutions.Build script for multiple boards and android devices.Docker based development	<ul style="list-style-type: none">Kubernetes configuration.Containers and pods configurations. Loggers and containers dashboard setup.No SQL configuration and services set up for access over applications.
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