

PRAJITH PARAN

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Director of Software Engineering and Enterprise Architecture

Self-motivated and highly competent IT professional with 20+ years of in-depth experience in SDLC, business problem solving, secure and scalable solutions design, and delivery of enterprise level solutions.

5G-SA subject matter expert with Telecom experience in Architecture/Design of BSS and OSS IT systems. Equipped with the ability to understand and relate to the business objectives and provide high-quality automated solutions, coupled with broad knowledge of Cloud and application development that will be utilized to build best in class software and ensure that the software achieves its goals in operational reality. Proven expertise in managing the delivery of mid-to-large web/enterprise applications, including Agile/Scrum projects using agile frameworks such as SAFe, Scrum, and Kanban. Demonstrated experience interfacing with external software design and development vendors.

An initiative leader; brings forth a strong background of problem solving, managing risks and dependencies, escalating and tracking impediments, and providing input on resourcing to address critical bottlenecks. Takes ownership of assigned projects from design to implementation and maintenance in production. Committed to collaborating with cross-functional teams and leaders to implement policies, procedures, and standards that will drive a preventive, zero defect culture of quality, continuous learning, stronger customer satisfaction, and process efficiency. Success of influencing key stakeholders to accomplish the short and long-term goals established within the organization's strategic plan.

TECHNICAL PROFICIENCIES

Technology working groups

[LF Networking – Linux Foundation Project](#) – Part of 5G-SBP-Super Blue Print Group | GSMA – MRR (Mobile Roaming revisited for 5G-SA) | ONAP Slicing & Automation Platform | [Open Networking Foundation](#) | [O-RAN ALLIANCE e.V](#)

Open Source Products: Kubernetes, Helm, Docker, REDIS, SCYLLADB & CASANDRA, Influx DB and Grafana, MYSQL/MongoDB/Maria, Hyper ledger Fabric, WildFly, MuleSoft ESB, GoLang, Most of the apache license products

Cloud platforms: AMAZON AWS / Google Cloud

5G-SA Charging systems on Huawei and Ericsson

CORE COMPETENCIES

Blueprint & Solution Design | Full Cycle Project Management | IT Strategic Planning & Implementation
Architecture Standards & Principles | Systems Engineering & Architecture | Business Alignment & Risk Management
IT Solutions & Operational Support | Agile Methodologies | Troubleshooting & Issue Resolution
Cloud-Based Architecture | Product Design & Configurations | Software & Application Testing
Cross-Functional Collaboration | Team Leadership | Staff Development | Communications Skills

PROFESSIONAL EXPERIENCE

Emirates Integrated Telecom (DU), Dubai, United Arab Emirates
Senior Manager Solution Design & Architecture

May 2011 – Present

Develop and govern enterprise architectural frameworks, ensuring alignment with the architecture vision. Diligently analyse processes to recommend modifications that will minimise escalations, improve operational efficiencies, as well as cut costs and cycle-time as per the architecture road map.

Noted Projects and Accomplishments:

- **5G-SA: Implementation of 5G Standalone Charging Domain and extensive use cases:** Oversaw the architecture and solution for CHF and network integration for 5G-SA, ensuring compliance with R15/16/17 releases of the 3GPP.
 - Reviewed and defined the architecture and solution for SBI integration on BSS system covering major nodes such as SMF, PCF, NWDAF, and AMF to CHF, as well as CHF and BSS system.
 - Recommended standards dynamic slicing framework, including Open Network Application Platform (ONAP) and Open Source Mano.

- **Real-time Rating for Post-paid customers:** A top management initiative to have real-time charging for Post-paid customers, expanding the existing data charging solution to OCS which would cover Voice/SMS/DATA.
 - Played a key role in early detection of any solution gaps and solution design review of multiple phases.
 - Contributed in other stages of project execution, including the validating the migration of data approach from Offline to Online as well as integration of Voice/SMS/ Core (SPS/STP/DRA) towards OCS.
 - Proposed and enforced best practices and standards across technical architecture and application.
 - Ensured the reusability of micro service and API integrations were balanced across the implementations.
- **Prepaid Swap: Oracle IN to Ericsson CS18:** A crucial strategic project to swap the existing legacy prepaid charging system which entailed evaluating the Architecture and Design to guarantee adherence to process, frameworks, and approvals as well as manage risk and resolve issues
 - Integrated TIBCO based ESB architecture and solution and ensured best and suitable solution was used for the current environment which reduces the TCO.
- **Shared Pool for Enterprise:** This was one of the company's strategic projects that aimed to have All LE and SME customer to share the data across multiple enterprise hierarchy.
 - Innovatively developed the E2E Solution design in alignment with multiple deliveries and prepare design patterns and documents to ensure adherence to development standards across deliveries.
- **Real-Time Lifecycle Marketing platform (Evolving systems):** A platform that can dynamically calculate the right offer, determine the right time for customer engagement, and communicate with the client, performing tracking and automatic fulfillment.
 - Liaised with vendor SSM/ Evolving in developing the solution and integration finalization.
- **Online Data charging for various revenue generating propositions:** The solution and infrastructure covered major nodes such as UOM (Unified Order Management), OCS (Online Charging system), and UCM (Unified Contract Management) which is offered as part Huawei Value Growth Solution (VGS).
 - Reviewed and recommended an architecture and design that aligned with the process, frame works and standards used across enterprise.
 - Proposed and advocated for a generic frame work across end to end design for reusability and managed the R&D and architecture to develop customized extended features.
- **Transformation of Invoicing platform:** A solution that is based on OPENTEXT Stream Serve Platform and enables the defining of convergent bill layout for consumer and enterprise segments, covering both fixed and mobile networks.
 - Engaged with stakeholders to analyse business requirements, conducted design reviews and recommended patterns for better performance.
 - Integrated the solution with the Billing platform – BSCS, resolving complex technical issues while managing risks.
 - Implemented several open source products on various platform, including Open Rate (Transformation to high speed Rating Engine), J-billing as well as KIJ, Hadoop/H-base/Avro and Cassandra (<http://cassandra.apache.org/>)

Emirates Telecommunications (ETISALAT) – Abu Dhabi United Arab Emirates Manager Solution design and development

Dec 1996 – May 2011

Managed and spearheaded the execution of high-level design and architecture projects, delivering all projects on time and within budget.

Noted Projects and Accomplishments:

- **Rating Engine for Post-paid Customers:** As part of the major transformation of BSS, this rating engine implemented for more than 20 post-paid products covering mobile/fixed/broadband etc.
 - Architected the complete Rating engine covering Design Patterns/POC/development
 - Developed in C++/STL – Standard Template Libraries /Oracle OCI etc.
- **TAP3.11.12 Roaming System:** A system that aimed to address the challenges of billing new generation services such as Internet information, mobile multimedia, and new international roaming services.
 - Involved in various stages of the project execution, including complete design and development stages as well as mechanism designs and performance and Database tuning.
 - Leveraged ASN1, OCI/Sun Studio12 and Solaris 10/C++/C in development.
- **Work Force Management System:** A project that comprised of SIH (Strategic integration Hub), FOS (Field optimization suite) and BSS domain using TIBCO infrastructure (ESB and BPM – I-process Suite). The system employed state of the art technologies such as GPS and PDA to facilitate optimisation of technicians during field visits.

- Managed product rollout, immensely contributing to the architecture of Strategic Integration Hub (SIH) as well as fault tolerant and load balancing implementations.
- Utilised TIBCO I-process engine and Business Studio in Business Process Management (BPMN).
- **Implementing an Enterprise Service BUS (SOA & EAI):** ESB provided the infrastructure for all messaging and SOA implementation requirements of the corporation by integrating with BSS(Business Support System) and OSS(Operational Support Systems) layers which supported activation and mediation of Wireless products (PSTN/GPON) and Wireless (GSM/3G/Data).
 - Architected the design and patterns to enable the system to support millions of messages per hour and messaging patterns.
- **Customer Care and Billing System (BSS DOMAIN):** One of the company’s prestigious projects that aimed to facilitate a complete customer care and billing package.
 - Held bottom-line accountability for business process and enterprise data modelling controls flows.
 - Designed and implemented rating engines, customizable rule engines and EAI modules and was involved in both system and database performance tuning.
- **NRRTRDE (Near Real Time Roaming Data Exchange):** The solution’s purpose was to capture and send roamer call detail records-CDRs from the serving operator (the VPMN) to the home operators (HPMNs) to reduce fraud.

Additional Experience

- Technical Architect & Design Lead/ EAI Architect/ Technical Architect/ Systems Analyst | Emirates Telecommunications (ETISALAT) – Abu Dhabi United Arab Emirates
- Senior Software Engineer | Al Andalus Group of Companies, KSA
- Software Engineer | Canada-India Institutional Co-operation Project Trichur, Kerala, India

EDUCATION

Bachelor of Technology in Computer Engineering (1st Class Honours)
Mangalore University, India

CERTIFICATIONS, PROFESSIONAL TRAINING & ARTICLES

Certified SAFE Agilist & Architect
TOGAF 9 Certified
ITIL V3 Certified

5G-SA Protocols and Standards and Node capabilities diagram/article in LinkedIn

https://www.linkedin.com/posts/prajith-paran-31909616_opensourcecommunity-ran-5g-activity-6956175280763797504-60xS?utm_source=linkedin_share&utm_medium=member_desktop_web

Open Source Implementation on TELCO: From Radio to Billing for 5G-SA and beyond - *Complete Cloud based Architecture/Solution and Open Source TELCO in a BOX (Software Defined Telco (SDT) concept)*

IBM Block Chain Foundation Developer

Ericsson CS18 & Convergence Solution (BSCS & Rating/CS18 etc.)

Huawei CBS 5.21 Convergent Charging and Billing Solution (5G-SA)

Huawei PCRF Service Policy Design and Troubleshooting

Architecture Essentials of Distributed System

APIGEE Solution Design

TIBCO Active Matrix Business Works Integration/Admin Boot Camp

TIBCO Enterprise Messaging Service (EMS) Administration

TIBCO Hawk Administration

TIBCO BPM Academy (I-process suite / Business studio)

Architecting on TIBCO SOA

Oracle as TopLink: Implement Persistent Java Objects in ORACLE Education

Oracle – Develop Enterprise JAVA Beans in ORACLE Education

Oracle – Create Servlets and JSPs in ORACLE Education

Java Programming (J DEVELOPER) in ORACLE Education
DEC (Digital Equipment Corporation) for DECNET/OSI/X.25/TCP/IP in DIGITAL
In house training for complete SDLC and UML/ Rational