



THIRUKKAMI SENTHILKUMAR

*Delivery Management/ Project Management/
Product Development Specialist*

CONTACT

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NRIC: Singapore PR holder

EXECUTIVE SUMMARY

Project Driven Business Transition Leader with over **18 years** of cross-cultural experience across **India, Singapore and New York** in Delivery Management, Product Development and Application Development. Efficiency in working on all phases of SDLC including requirement analysis, functional specification development, solution design, test planning, development, testing & integration, implementation and support. Proficient in analyzing and translating product requirements and standard specifications to technical requirements. An expert in coding with familiarity of working on Agile and Waterfall Methodologies. Efficiency in reviewing UAT results, release instructions and approving release tickets.

CORE COMPETENCIES

- Delivery Management
- Project Management
- Requirements Gathering/ Analysis
- Product Development
- Risk Management
- Agile & Waterfall Methodology
- Stakeholder Management

CAREER CONTOUR

Since Feb 2006 @ Credit Suisse Services AG, Singapore
Vice President

Jan 2005 - Jan 2006 @ Hewlett-Packard, Bangalore
Senior Software Engineer

Jun 2004 - Dec 2004 @ Sonata Software Ltd., Bangalore
Consultant

Sep 2003 - Apr 2004 @ PSI Data Systems, Bangalore
Senior Software Engineer

Feb 2001 - Sep 2003 @ Timken Engineering & Research, Bangalore
Junior Systems Executive

EDUCATION

- **Post Graduate Diploma in Global Finance** from Chinese University of Hong Kong (Credit Suisse Sponsored); **2012**
- **Master of Computer Applications** from University of Madras; **2000**
- **B.Sc. (Physics)** from University of Madras; **1997**

SKILL SETS

- Big Data, Hadoop, Spark, H2O, Cloudera, Hive/ Impala, HBase, Machine Learning / Data Analytics, QlikView, Tableau, Colibra
- SOX/ KPMG/ ORM/ CISO, MRM Audit and Compliance

CAREER HIGHLIGHTS

- Delivered over 15 Big Data Engineering and 4 Machine Learning Business Solutions.
- Won the regional PB/WM and SHS IT (PWS IT) PEGASUS Award for Q2-2014 on successful retirement of Firemints with TCO savings of ~150K CHF per annum
- Achieved TCO savings of ~900K CHF by leading teams to decommission 4 legacy applications by transitioning the functionality and business to target application seamlessly
- Transitioned 5 applications from non-strategic vendors to strategic vendor partners
- Achieved 80% reduction in the Build effort by developing new ASPX pages with ease by building the page layout in XML without any .NET development
- Extended support to the BCM and setup DR environment and successfully completed the DR test without any issues being identified
- Built vendor base and captive teams in Singapore, Pune, Poland, Raleigh and New York.
- Devised the transition plan for KT, shadowing process, Reverse KT with hand-over of documentation and off-boarding non-strategic vendor.
- Accomplished extensive KPMG's DATP (Developer Access to Production) and SATP (Standard Access to Production) audit without any control issues being identified.

KEY RESULT AREAS

Delivery Management:

- Anchoring responses to RFI/RFP, forming quick response teams, coordinating & reviewing content to present best response.
- Providing estimations and review services along with developing and sustaining effective relations with clients to ensure repeat/ referral services.
- Providing strategies to the leadership team for continued improvement in effectiveness & efficiency of business.
- Monitoring delivery management for technical deliverables of concurrent projects along with supporting delivery functions to ensure end-to-end ownership.

Project/ Program Management:

- Planning project activities viz., scoping, estimation, tracking, change management, delivery management & post implementation support.
- Analyzing project requirement for further proceedings and delivering and implementing project as per scheduled milestones.
- Diversifying risk management with mitigation plan at operations level for the risks associated with people, technology, processes and social environments.
- Preparing annual budgets, revenue leakage prevention, new business initiatives, contractual amendments, Penalty/ Rewards working based on project milestones and SLA achievements, managing gross margins.

Application Development:

- Designing Cross-Tenant access process by setting up Multi-Tenancy platform architecture (with over 40 tenants) with appropriate security controls and physical segregation layers at Gateway Host and HDFS levels (separate DB Schemas for each).
- Developing common toolsets like Data Ingestion and Metadata gathering Framework for facilitating the Data Governance process and Data Lineage implementation.
- Enabling R-Studio to promote business to publish their R-code to PROD by building self-service capability.
- Upgrading CPU, RAM, Storage and additional Name/Data Nodes. WIP to drive phase II cluster expansion to add additional datanodes
- Performing design and development of functional and technical solutions by evaluating the CTQs performing portfolio analysis and conducting risk management

Product Development:

- Implementing CI/CD and driving DevOPS adoption for automating the manual process for code deployment and testing to achieve more efficiency.
- Ensuring newly proposed innovation designs are in-line with SOX and CISO guidelines to avoid any compliance issues being flagged in audit in coordination with the Operations Risk Management and IT Risk team.
- Driving complex solutions by exploring and reviewing FinTech based innovative vendor-based products in the market.
- Designing and developing dynamic .NET template to replace legacy ASP based website.

SOCIAL INITIATIVES

- Submitted proposal (worth ~1.2 Million INR) to CS APAC Philanthropy committee to request for a grant to construct Library and Reading Room for United Handicapped School at Coimbatore, India (<http://www.unitedorphange.org/>). Successfully secured the funds and worked closely with school management for smooth constructions and inaugurated by Sr. Director from Singapore.
- Received "Friends of SINDA" award twice from Deputy PM's in Singapore by collaborating with SINDA (<http://www.sinda.org.sg/>) for over 5+ Years in driving Philanthropy activities. Also conducted IT workshops for Senior Citizens in Singapore

CERTIFICATION

- MCAD Certification in .NET

ANNEXURE

Projects Undertaken

Organization	Credit Suisse
Project	Finance Big Data Platform
Duration	Jan 2017 - till date
Details	<p>Finance Big Data Platform (FBDP) delivers the Innovative solutions for CFO department within RFIT. This caters the deliveries across sub-departments namely, Product Control, Group Finance, Treasury and TAX. FBDP comprises of two Hadoop clusters across New York and Zurich. Deliverables covers solutions across Big Data Engineering (Massive volume of data ingestion from various systems followed by data harmonization for MIS reporting), Data Analytics via Machine Learning and Building Visualization dashboards via Tableau/QlikView/Answer-Rocket. These deliverables are hosted on foundational elements of the cluster which comprises of Multitenancy (40+ tenants) architecture with well controlled physical boundaries/security for each, Metadata driven data ingestion and transformation framework, Data Governance framework to build Data Lineage capabilities, Self-Service capabilities for Business to bring in their own dataset into Hadoop and build their own QlikView visualization reports. Self-Service capabilities were extended to provide R-Studio for Business to bring in their own R-code. New York cluster team constitutes of 35+ members (across Americas, Singapore, Poland and Pune) which includes Data Engineers, Data Scientist, Visualization developers, QA and Scrum Masters. Hadoop infrastructures are hosted on Cloudera stack.</p>
Accountabilities	<ul style="list-style-type: none">➤ F2B Delivery Management of the projects and BoW. (Team of 30+ members across Singapore, India, NY & Poland)➤ Setting up Multitenancy architecture, Building Metadata Ingestion Framework and Common toolsets.➤ Ensure Metadata collection is as per the Data and Asset Classes defined in the Collibra for Data Governance.➤ Cluster Capacity Management and plan for necessary upgrade / onboarding new toolsets.➤ Drive/take part in Design and Architectural review working group.➤ Ensure production stability and cover L3 support. Represent monthly Governance call with Production Services.➤ Compliance related: POC for internal and external audit. Ownership to review/sign-off yearly OET from ORM team. Design and Review access control and security framework. Liaise with IT Risk to review exception process.➤ Handle RFP/RFI and provide HLE for new initiatives.➤ Review release readiness with team and plan for smooth deployment.➤ Weekly review RACI and RAID status with Head of Innovation.➤ Leverage 3rd party toolsets to drive efficiency / reduce build cost.➤ Stakeholder management across Business, Change, PM, BA, QA, TIS and Production Services.➤ Vendor Management and represent monthly Governance call to review their efficiency and progress.➤ Line Management (Objective settings, Performance Management, PDP, PIP) of the resources.
Highlights	<ul style="list-style-type: none">➤ Led the team to deliver 15+ Big Data Engineering and 4 Machine Learning solutions.➤ Designed the Multitenancy Architecture along with Cross Tenancy access and led team for successful implementation.➤ Lead the team to build the Metadata driven Ingestion Framework.➤ Involved in designing the Framework for Metadata collation process to support Data Lineage and Governance. Review the Data Dictionary to ensure Data/Asset Classes are as per Governance guidelines in Collibra. If required, update/add attributes to Data Dictionary in Collibra.➤ Lead the team to drive two CDH upgrades from Cloudera which covers F2B thorough testing of all live (20+) solutions for seamless rollout in PROD.➤ Consistently monitor the capacity of the cluster and successfully upgraded RAM, CPU Engine and Storage as required. Also added additional Datanodes and Namenodes.➤ Successfully laid out the operating model for Delivery Process (Guidelines, Review, Documentation to comply with SDF) and Release Management.➤ Successfully setup DR infrastructure and completed the DR test without any issue being reported.➤ Successfully covered the 3 months of deep-dive internal/external audit on Controls related. Proactively identified controls related gaps helped to clear the IT Controls and secured A2 rating.➤ Successfully worked with IT Risk to build a case and secured Medium Risk acceptance (exception process) for rolling out Self-Service capability with RW access to Business in PROD.➤ Built captive and vendor teams in Pune which covers Data Scientist, Data Engineers and Visualization expertise.➤ Working with start-up and MNC's to explore 3rd party toolsets for Data Virtualization and F2B Automation capabilities to support the department strategy.➤ Worked with vendor in Pune to layout the plan to handle attrition and timely replacement of the resources.➤ Took charge of Swiss cluster to rollout Multitenancy Architecture and leveraging Metadata based ingestion framework.➤ Building DevOPS capability to accomplish CI/CD.
Technologies/Tools	<ul style="list-style-type: none">➤ Hadoop: HDFS, Hive, Impala, HBase, Sqoop, H2O, Cloudera, Hue, being explored for new use-cases: Flume, Kafka, Spark➤ Data Dictionary: Collibra➤ Web Related: Web-Service, Tomcat.➤ Visualization: Tableau, Qlik-Sense, Answer-Rocket

- ☞ Toolsets: Control-M, Service-Now, JIRA, SVN, Teamcity, Nolio, nSphere (AURA), Jenkins/Maven, Transporter, EyeShare, Geneos.
- ☞ Scripting / Languages: Unix/Shell Scripting, Scala, R, Java, Python

Project EUR and APAC PnL Applications

Duration 2013 – 2016

Details Product Control (PC) is integral part of IB Organization to generate Daily PnL which is being reported back to trading desk and regulators. Also play key role in handling the validating the FO booking, Risks and Controls to avoid incorrect booking, insider trading, cancel & correct and etc. Product Control IT assist PC business in generating accurate PnL across regions at department level. There are various applications within PCIT which caters services to PC business and few of them were managed by me as Deliver Manager and IT Application Owner. They are Polar, POETS, Firemints, DRIP, FACE, OV2, OFM, GPL andSWAN.

- Accountabilities**
- ☞ IT Application Owner cum Delivery Manager.
 - ☞ Led the team of over 40 members across 9 applications (over 3 years span) to drive the BoW (new projects and enhancements)
 - ☞ Faced-off for Internal/ External audit, Controls and ORM team to cover yearly audit activities and IT Security Health check.
 - ☞ Line Management (Objective settings, Performance Management, PDP, PIP) of the resources.
 - ☞ Managed the vendor partners across Wipro, CTS and Cap Gemini.

- Highlights**
- ☞ Successfully decommissioned SWAN, DRIP and Firemints to reduce overall TCO ~900K CFH.
 - ☞ Successfully transitioned the application teams from non-strategic vendor partners to strategic partners without any impact to deliverables and business.
 - ☞ Successfully handled year audit and compliance controls related testing without any Control Issues being reported.

- Technologies/ Tools**
- ☞ Operating System: Unix/ Linux / Windows.
 - ☞ Web related: ASP.NET, IIS.
 - ☞ GUI: VB.NET / Power Builder
 - ☞ Databases: Oracle / Sybase / SQL Server
 - ☞ Toolsets: Control-M, Service-Now, Quality Center, JIRA, SVN, nSphere (AURA), SPUDS.
 - ☞ Scripting/ Languages: Unix/Shell Scripting, Perl, Python

More details and references will be shared, if requested.