Sangmesh Tarali

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Objective

Highly motivated and results-oriented **Solution & Enterprise Architect**, possessing exceptional communication skills. Demonstrated ability to create and enhance technology solutions, systems applications, and Regulatory requirement projects, **Digital Transformation**. Solid track record of meeting or exceeding project goals in a timely manner.
Have the desire to work in a small, medium or large size company that offers me challenging projects and an opportunity to improve my experience and knowledge. Open to any industry vertical - **Insurance, Retail, Banking & Financial Services, Life Science, Healthcare**

Summary

- Hands on Solutions Architect / Technical Lead experience with **20+ Years** of overall IT experience in Product based organization, Investment Banking, Retail Banking, Auto Finance, Life Science.
- Strong background of experience in **Solution / Enterprise Architecture (9+ years),** Integration Architecture (EAI), Architecture Governance, Information Management, Business Intelligence, Test Driven Development, Component-Based Development, Object Oriented Design and Emerging Technologies
- Provide thought leadership in tackling multiple, complex issues to create effective and lasting solutions.
- Experience in directly supporting enterprise architecture programs thru **Architecture Review Boards**
- Effectively collaborate with stakeholders to gain collective buy-in on architecture strategies. Excellent work ethic and ability to negotiate conflicts and build consensus.
- Experience in technical management of large-scale projects and enforce Architecture Governance process and standards
- Specialize in leading business transformation and building enterprise capability models.
- Instrumental in defining IT strategy, developed IT technology roadmaps / blueprints
- Strong experience delivering strategic business solutions to global clients with offshore and onsite models.
- Provide Subject Matter Expertise (SME) and technical leadership, mentoring, and direction setting with Business-IT Steering committee members, key business stakeholders and the in-house business process architects, application architects, information architects and IT Infrastructure architects.
- Excellent leadership and project management skills, including adept ability to perceive, develop and implement client objectives.
- Ability to articulate a unifying set of concepts that provide vision and direction for delivery teams. Passion for learning and coaching teams on technology.

Technical Summary

Banking Standards
SWIFT, Payments (Wires, ACH)

Regulatory/Compliance
Dodd-Frank, PCI

Architectural Frameworks/ Patterns
TOGAF, Zachman, **CQRS**

Software Engineering
Waterfall, TDD, BDD

CI/CD
Jenkins, DevOps

Emerging Technology & Tools
Elasticsearch, **Apache Kafka**

Programming Languages
C / C++ / Java / .NET

Integration
SOA, **microservices**, **Apigee**

Workflow Technology
Pega, IBM BPM, JBoss BPM

Web Technologies
AngularJS, NodeJS, Javascript, **SPA, Responsive Web Design**

Database Technology
Oracle, Sybase, DB2, NoSQL, **Redis**

Infrastructure
Virtualization, Clustering, Cloud technologies, **Redhat Open shift, Dockers, Containers**

EDUCATION

Bachelor's in Engineering, Computer Science (Gogte Institute of Technology, Belgaum)

RECOGNITIONS

The Open Group – TOGAF 9 Certified
Certified Professional Scrum Master (PSM I)
Aviatrix Certified Engineer – Multi-Cloud Networking Associate
SAFe 4 Agilist trained
Redis trained Engineer in Data structures, Redistreams, Redisearch
Elasticsearch Engineer I trained
Received **IBM** (Bravo Award), **TD Bank** (WOW Awards) for exceptional work performance

RELEVANT PROFESSIONAL EXPERIENCE

Employer: ProCorp Systems, Inc. Enterprise Solution Architect, Feb 2019 – Till date

Client: Eversana Life Science Services, Solution Architect, Jan 2020 – Till date, Mason OH

Designing solutions for enterprise technology capabilities for clinical trials associated with certain pharmaceutical companies in rare disease drugs

- Developing Architectural solution for Enterprise Logging and Auditing framework, proposed solution model using *Splunk, ELK stack, Apache Kafka with Splunk and Elasticsearch*
- Working on programs like; *Patient Connect Services, Patient Assistance Program as part of Affordability Program Management, Patient Adherence Program, Clinical trial programs*
- Working on *Enterprise Messaging standard* strategy and pattern development
- Worked on PoC for SIEM product from *Exabeam*
- Assess the innovative technologies within the scope of Proof of Concept (PoC)
- Take Architectural Decisions through the Enterprise Architecture Review Board for IT Governance
- Participate in architectural and design reviews

Client: Fifth Third Bank, Enterprise Architect, Feb 2019 – Dec 2019, Cincinnati OH

Working as Architect on Liquidity Management software for Treasury management customers of bank. It provides consolidated view of commercial customer accounts within Fifth third and outside the bank for cash flow management and cash concentration activities. This is revenue generation project to increase the commercial customer account footprints across the regions supported by the bank.

- Developing Architectural solution for Liquidity Portal Solution (LQP), leveraging platforms like *Cloud Technologies (Redhat Openshift), DevOps (Jenkins), Micro services (Dockers/Containers), API Management (Apigee), Web Technology(SPA), Integration (Apache Kafka), Elasticsearch, Redis, Change Data Capture (Striim), Identity Management (PingFederate), Enterprise vault (Hashi vault).*
- In-memory data store engine creation for optimal performance of database queries.
- Security solution using enterprise security product for new banking applications with token- based access/authorization privileges
- Assessing the impact of the changes on the existing IT systems and suggesting software architectural changes to the existing systems
- Interacting with and guiding the development teams to ensure quality delivery
- Providing thought leadership in IT strategy, business and IT alignment, and working with the Business and IT stakeholders and get their buy in for the suggested Architectural changes
- Participate in architectural and functional reviews and apply industry best practices
- Assess the innovative technologies within the scope of Proof of Concept (PoC)

- Ensuring compliance to client policies & processes

Employer: Priserve Consulting Inc, Principal Software Architect, Dec 2010 – Jan 2019

Client: Fifth Third Bank, Enterprise Architect, May 2018 – Jan 2019, Cincinnati OH

Working as Architect on Liquidity Management software for Treasury management customers of bank. It provides consolidated view of commercial customer accounts within Fifth third and outside the bank for cash flow management and cash concentration activities. This is revenue generation project to increase the commercial customer account footprints across the regions supported by the bank.

- Work with application solution provider in infrastructure sizing of the product
- Working with bank's shared services team to design the solution within cloud infrastructure on-premises
- Providing governance for management of open source software within the product
- Working with application and DevOps team to automate software deployment and builds

Client: VISA, Solution Architect, June 2017 – Sep 2017, Foster City CA

The Solution Architect is responsible for delivering critical architectural blueprints and coordinating end-to-end provisioning processes, contributing to best practices in the alignment of logical and physical architecture to ensure service resiliency, performance, scalability, effectiveness and efficiency.

- Responsible for analyzing and translating business information and technical requirements into an architectural blueprint that outlines solutions to achieve business objectives
- Work with application and infrastructure teams to review or produce optimal, high level designs
- Conduct proof-of-concept projects to validate new feature sets and 3rd party technologies
- Analyze the current architecture to identify weaknesses and develop opportunities for improvement such as improving business processes, expanding capacity, reducing cost and increasing effectiveness
- Ability to apply multiple technical solutions to business problems by documenting all solution architecture design and analysis work
- Interface with internal IT management leadership, technical leadership and external requestors as a strategic value-add point to improve IT for completeness, consistency, availability, satisfaction, and to deliver quality services
- Establish system requirements, designs, builds, and manage critical infrastructure deliverables while driving Technology Standards
- Utilize data-driven approaches and methodologies to reduce IT process gaps and enhance process effectiveness through automation
- Monitor the processes, policies, procedures and standards applicability, effectiveness and efficiency
- Ability to review complex processes, manage customer service and provide regular technical reports both verbal and statistical showing status of ongoing projects and goals
- Using **CloudView** tool – for automated infrastructure sizing and provisioning for supported technology standards within organization

Client: Priserve Consulting Inc., Solution Architect, Sep 2016 – Apr 2017, Houston TX

Worked on Proof of Concept (PoC) project for developing Integrated Software Platform to bring multiple Marine Independent Software Vendors (ISV) onto the platform with virtualization and cloud processing. Companies like, Engineering & Construction firms including fabrication / shipyards (Large and Mid-size) will be subscribing to this integrated platform on pay per use model. The ecosystem will integrate ISV software with other OEM software vendors, so that data from the ISV's can generate required analytics, which is a manual process in the current industry.

- Analyze multiple vendor software's to ensure alignment with business goals / objectives
- Options analysis between multi-tenant / hybrid cloud hosting solutions
- Integration pattern between ISVs and OEM software vendors for analytics
- Consolidation of integration methodology between ISVs with common interface

Client: TD Bank /TD Auto Finance, Solution Architect, Mar 2011 – Jul 2016, Mount Laurel NJ
Provide architecture and technology guidance to project delivery teams as they develop client solutions. The Solutions Architect has key involvement in building out business aligned initiatives. Architects recommend solutions that account for total cost of ownership, risk and leverage (or advance) strategic enterprise assets. The Architect provides expertise and counsel; ensuring technology teams and business areas understand the architectural options and technology choices in support of their business.

- Research/analyze business requirements to evaluate and recommend optimal solutions within technology architecture and communicate the architecture concepts in simple manner to stakeholders
- Influence product/vendor direction and integrate technology from an architectural perspective within the business environment and fulfill an IT governance role. Design and develop relevant templates from IT governance perspective.
- Document current state architecture and design future state meeting Enterprise Architecture standards. Work thru getting **Architecture Review Board** for review of solution and approval process.
- Apply industry best practices, guidelines, standards, principles, patterns to provide solutions that increase business results and/or minimize risk within business goals
- Expertise counsel at management level to ensure technology teams and business areas understand the architectural options and technology choices in support of their business initiatives by estimating the financial impact of solution architecture options
- Holistically assess viability/priority of projects/initiatives across a large program or portfolio of projects and ensure architecture issues are clearly communicated to infrastructure architect, application teams and business units.
- Review/provide direction in the formation of development specifications, technical requirements, system performance objectives and identify system modifications required to meet objectives.
- Participate in pre and post implementation reviews, ensuring all technical solutions have met business requirements.
- Contribute to meeting key project milestones and overall project deliverables on time, within budget, and adhering to relevant standards.
- Support the development, documentation, communication and execution of a comprehensive strategy, policies and solutions.

Client: Ansaldo STS USA, Sr. Software Developer, Dec 2010 - Mar 2011, Pittsburgh PA
CADX (Computer Aided Dispatching) system development and enhancement by Ansaldo STS USA Inc., for client **Union Pacific Railroad**. This project involves managing various sub systems of railroad management, like authentication system, traffic planner, signal management, authority management and enterprise service management. It also involves developing new features into same.

Development / Maintenance of code in **C++** using **STL** libraries

Employer: Nomura Services India Pvt. Ltd., Sr. Tech Lead – AVP, Oct 2007 – Sep 2010, Mumbai India

The PRISM model was license purchase by Nomura Securities Ltd. from Lehman Brothers which was earlier termed as MPE engine.

Potential Exposure (PE) is an estimate of the credit exposure of a given counterparty portfolio of trades at a future point in time under an assumed market scenario. It is essentially one possible future value of the current exposure. It is customary to model many market scenarios, per statistical principles, so as to generate a distribution of PE samples. The Maximum Potential Exposure (MPE) of a counter party at any time point in the future is defined to be an upper percentile limit of the distribution of the PE's of the portfolio held by the counterparty at that time. Nomura chooses the 97.7th percentile point as the level for the MPE. PRISM is a robust Monte Carlo based exposure

calculation simulation system used for measuring potential exposure, by product class Fixed Income Derivatives (FID), Foreign Exchange (FX), and Credit Derivatives (CRD).

- Designing PRISM (Potential Risk Simulation Model) system from scratch for Nomura requirements and part of team from design till release into production.
- Integrating market and trade data into PRISM system by writing data extraction adaptor routines in **Perl**.
- Changing pricing models for credit derivative products, like Credit Default Swap (CDS).
- Changing exposure aggregation to calculate combined expected exposure across all products FID, FX and CRD.
- Wrote reporting utilities to generate exposure comparison reports for Credit analysts in **Perl**.
- Code modification to calculate RegCap (regulatory capital) numbers required as part of regulatory requirements.
- Pricing engine code modification in **C/C++** on **Linux** platform.
- Testing in UAT environment setup by generating impact reports for user sign-off.

Employer: IBM Software Labs India, Staff Software Engineer, May 2000 – Oct 2007, Pune India

Project: IBM Tivoli Directory Server
A directory service is the collection of software, hardware, processes, policies, and administrative procedures involved in making the information in directory available to the users of directory. The Lightweight Directory Access Protocol (LDAP) is a standard, extensible Internet protocol used to access directory services.

IBM's Tivoli Directory Server (TDS) is a powerful, security-rich and standards-compliant enterprise directory for corporate intranets and the Internet. It is built to serve as the identity data foundation for rapid development and deployment of Web applications and security and identity management initiatives by including strong management, replication and security features.

Replication is the technique of duplication data across multiple directory servers for performance, scalability and redundancy. Replication, in IBM's TDS earlier version, refers to replicating an entire sub-tree including all attributes of each entry in the sub-tree to the consumer server (replica server). This new feature, of filter based replication, in IBM's latest version of TDS, is designed to have only required entries and possibly a subset of its attributes to be replicated within a subtree (replication context), based on administrator's decision. This feature gives directory administrator flexibility to control which object classes and what attributes of these object classes are sent to consumer servers (partially replicating an ldap entry) by defining replication filters.

- Requirement analysis of feature by understanding competitor vendor implementation.
- Writing high level design for feature including unit test cases.
- Coding the feature as per high level design.
- Unit testing the feature as per written unit test cases.
- A new data structure class was created to hold the filters using **STL *sets*** where each filter attribute was stored as *string*.
- Member functions were added to access filter objects using **STL *set's*** methods like ***insert, erase, clear, size, for-construct***.
- Filter entry validation code, as per filter entry syntax, was written in **C** using standard *string* library routines.
- Logic was designed to create missing parent entry on replica and coded using **C/C++** language.

Project: IBM Distributed File system (IBM DFS)
DFS is a flagship product of IBM Pittsburgh Labs (earlier called as Transarc Corporation). The Distributed Computing Environment's Distributed File Service (DCE / DFS) is a distributed client/server application that presents the DCE with a global view of a set of files and directories (a file system), independent of machine boundaries. This global view is called DFS file space.

DFS is considered distributed because files can be physically stored on many different machines, but they are available to users on every machine. DFS allows users to share files stored on computers in a network as easily as files stored on local machine. Despite this distribution of files, it still appears to users that there is a single file space.

Responsibilities – As Level-3 Technical Support Engineer:

- Understanding customer's problem in product functioning.
- Re-creating the problem in lab environment.
- Worked on multiplatform **Solaris, AIX**.
- Troubleshooting problem in customer environment, if required.
- Developing the solution for problem reported by customer.
- Testing the developed solution.
- Deploying the solution in customer's environment
- Analyzing and investigating the client's business issues and suggests solution to those issues.
- Analyzing the investigation request from the clients to identify the correctness of the system for specific business scenarios.
- Suggest solutions to the bugs or problems reported by the client. This requires thorough understanding of the system to determine whether the incident reported is a bug in the system or it is an issue with system configuration.
- Ensure compliance with contractual and service level agreements.
- Reviewing changes and solutions provided by the team members to ensuring correctness and quality.
- Integration testing the functionality with other enhancements.
- Providing status and progress reports to the reporting manager.
- All code fixes were in **C/C++** language.

Responsibilities – As Build / Release Engineer:

- Build/Release of service packs for DFS product.
- Compiling the entire product on supported **UNIX** platforms (**Solaris and AIX**).
- Maintaining the production environment of the product.
- Packaging the product, testing the product patch and releasing to customers.
- Configuration management and source code management of the product.
- Administration of build machines.
- Integrating the different modules of the system
- Debugging and resolving integration issues
- Environment setup
- Integration testing of end to end scenarios
- Preparing reports
- Worked closely with Testing team to resolve issues
- A peer to peer communication network in a distributed environment has been implemented for automated product builds.