**Prathap Gangavelli** [**prathapsysarch@gmail.com**](mailto:prathapsysarch@gmail.com)

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**Summary**

* **Around 15 years** of experience in Solution Architecture, Software Architecture, Designing Solutions, Evaluating Products, Development, Deployment (using CI/CD), Testing and Implementation of J2EE Application, DellBoomi(IaaS), Mule ESB /Data Power based Integration Applications, API Management, On-Premise hosted & Cloud Native Solutions for Insurance, Banking, Airlines, HRMS and Finance domains.
* **8 years** of **US on-site** experience at multiple client locations, I140 approved in 2013.
* Experience in applying **TOGAF** teaching for Service Oriented Architect (SOA), Micro Service Architecture and Event-Driven Architecture (EDA) standards & principles of design & development of database centric enterprise applications.
* Good working experience in creating TOGAF architecture deliverables **Architecture Vision**, Architecture Design Document, Architecture Roadmap & deliverables using SparxEA, MEGA, Microsoft Visio, RSA tools.
* **8 years SOA, Microservices Solution Architecture experience in designing large enterprise applications/solutions**
* **Partner with functional teams and resources across various disciplines, lines-of-business, and vendors** for creating technical as well as business design artifacts such as application architecture diagram, system architecture diagram, IT Sol certificates, CI/CD pipeline design, use-case documents, visual prototypes, business process modeling design documents for project execution in agile, SDLC or TDD.
* **Lead IT services strategies and solutions** to internal and external customers at enterprise level
* Very good experience in analyzes business requirements, determining appropriate technical approach and developing High/Low Level Design specifications for implementation design, development, testing and documentation of Web and Product/ applications
* **Strong hands-on experience design** and developing RESTAPI’s using various Spring Modules( Boot, Core, MVC, Web, Cloud, Security) , JPA, Hibernate, AWS(EC2, S3,EBS,EFS,Lambda, IAM, SQS, SNS, API Gateway), Azure Services.
* Good experience working with RedHat Openshift Docker container CI/CD setup for PaaS& Kubernetes containerization.
* Good experience implementing docker container-based applications - Full knowledge of Docker Core Ecosystem - Building Docker Images, Registries, Docker Networking, Docker storage, Docker Security
* Good experience in deploying multi-tier applications with Kubernetes, handling storage and networking. Provisioning and management of these, including resilience, load balancing, scaling.
* **Currently working as Solution technical architect at OSI Digital Individual Contributor responsible pre-sales architecture and executing multiple projects, doing design and development Proof of Concept (POC) .** Responsible to evaluate difference products and recommend best possible fit for current technological vision
* **Worked as Consultant (Solution & System Architect)** **for around 4 years at Fifththird bank & MassMutual Financial, USA** and responsible for Enterprise architecture, design and implementing SOA and Microservices Architecture, Evaluating Products, Soap/Rest Web Services, API Management & Mule ESB integration solutions hosted On-Premise as well as on Cloud Native applications as SaaS and PaaS model.
* **Worked as Technical Architect/Lead Developer for around 4 years at clients State Farm Insurance, American Airlines, USAA insurance USA** working as part of Tech Team overseeing multiple project for architectural, design and development quality as well as guiding team in adopting new solutions. Designed and developed POC so that other project teams can consume it. Created Standards and Guidelines for teams to follow for Web, Mobile and Desktop based applications
* Maintained good inter-personal relationship and displayed excellent communication skills in the process of client interaction.
* Working knowledge in BPM tool ARIS

**Technical Skills**

**Java Technologies:** Java, Java EE (JNDI and JDBC), Mule ESB, RAML, Servlets, JSP, Apache CXF Web Services (SOAP), JAX-RPC, RESTAPI, Integration, Cloud, J2EE Design Patterns

**API Gateway:** NGINX, APIGEE, Datapower

**Cloud Platform:** AWS,Azure,RedHat Openshift (PaaS), Kubernetes, Docker.

**Federated Identity:** Keycloak(opensource).PingFederate,CA-SiteMinder,OAUTH2.0, OpenID, SAML2.0

**Middleware Technology/Service Bus:** Mule ESB, DataPower, Message Broker, EJB

**Frameworks:** Spring, Angular7, React, Zookeeper

**Web Technologies:** JSP, AJAX, XSL, HTML, XML,

**CRM**: Salesforce, Siebel.

**Messaging & Queue :** RabbitMQ, In-Memory Queue, AMQP, Kafka

**Caching:** Gemfire Cache, EhCache,Redis

**Scripting Languages:** JavaScript, shell, python

**Search Engine:** Elastic, Solr

**Design Tool:** MEGA, SparxEA, Microsoft Visio, IBM RSA

**Web/Application Servers:** NodeJS,Apache Http, tcServer 2.9, Tomcat 4.5, Weblogic 8.1, JBoss EAP &JWS, Wild fly , WebSphere 6.1

**Database Servers:** Oracle, IBM DB2, MySQL, Redis NoSQL, PostgreSQL, MangoDB

**ETL and ReportingTools:** Informatica 9.1, Jasper, Twilio.

**Code Repository Tools:** Tortoise SVN, CVS, Git, Bit Bucket

**Development IDE:** Spring Tool Suite (STS), Eclipse, RSA, Intellij

**Build, Containerization and Deployment Tools:** Ant, Maven, Jenkins, Docker, Kubernetes, OpenShift

**Testing Tools:** SoapUI Tool, Postman, Remedy, JIRA, Rally

**Automation Test Languages:** JUnit, Munit, EasyMock, Postman Scripting, Jasmin, Karma

**Operating Systems:** MS Windows, Linux, VM

**Other Technologies:** Maven2.0, SPLUNK, IBM Tivoli Access Manager, LDAP, Active Directory, PKI, F5, Web Seal, ECM FileNet P8, Swagger, Prometheus, Grafana, Chef for config management, HPSM, ISTIO(Service Mesh), Ingress(Load Balancer)

**Professional Experience**

**OSI Technologies Nov 18– till date**

**Technical Architect**

Worked on multiple projects from initiation phase to production and also provided pre-sales design as Architect in multiple business domains. In HRMS domain delivered one hybrid platform product which is fully responsive multichannel modern digital product for California based US client which is deployed in Azure as PaaS solution, another major project in Auto insurance domain i.e., Third party liability insurance for Philippines based client which is deployed in client private cloud. Provided presales architecture for more than 10 business opportunities. Most of all projects delivered in cloud native microservices architecture platform.

**Responsibilities:**

* Interacting with client for gather requirements and provided application architecture design & detailed design.
* Designed Microservices and Azure hybrid cloud Solution.
* Designed and executed proofs-of-concept for critical enterprise security capabilities using Keycloak opensource SSO with OpenID.
* Responsible for choosing the right technology stack to deliver the application
* Code governance and enforcing architecture guidance and principles.
* Conducting security review as per HIPAA, FLSA compliances
* Managed Technical development team of 15 resources, create best practices and technical guidance across the organization Java development practice
* Build prototype constructs (system configuration, infrastructure) to validate feasibility of hypothetical solution

**Environment:** Oracle Java12, Spring Boot, Spring Cloud, Angular 7, React, Restful API’s, Keycloak SSO and Open ID, JWS, Tomcat, Azure, Kubernetes, Nginx, Ingress, AWS, TOGAF9, Jenkins, Git, Visio, Ionic, Spring Security, Prometheus, Grafana, Kafka, Tibco

**Fifth third bank (53rd), OH, USA (SV Tech Inc.)                                                              Aug 16– Sep 18**

**Solution Architect**

Fifth third bank’s liquidity portal management solution (LMS) is a digital banking experience platform for commercial clients. LMS solution provides three main capabilities for bank client’s treasurer cash position, cash concentration and cash forecasting. Cash position provides a single view of treasury dashboard that centralizes visibility across multibank deposit, loan and investment accounts and historical transactions within a specific account. The overall cash position could be viewed in different and/or native currencies. Cash concentrations enables the treasurer to concentrate cash from diverse accounts in domestic currency into a central account of 53rd. Cash flow forecasting provide insight into inflows and outflows of cash to treasurer based upon they can make invest or borrow decisions.

This solution designed API first and Microservices based pluggable and extensible architecture to bring full digital experience to replace traditional omni-channel platform approach.

**Responsibilities:**

* Architecting & Designing Logical, physical and technology architecture.
* Getting approvals from Enterprise architecture, Information security team and Risk teams by conducting strategic reviews and governance reviews.
* Create Architecture Deliverable system architecture document and ITAC (Information technology architecture council) presentation for governance approval and project execution.
* Leading the scope analysis discussion with business stake holders and IT execution team to come up with minimum viable product (MVP) planning and prioritization.
* Designed solution to deploy as PaaS application to utilize Red hat OpenShift platform.
* Designing, develop and consume RESTful API’s using JAX-RS.
* Successful Go-Live of 50+ SOAP/Restful services to different communication channels like .com, m.com, mobile and desktop applications.
* Responsible for deploying code to Production and addressing critical production issues Defect analysis, debugging and providing solutions
* Implemented building Micro Service architecture with Spring boot and docker container
* Developing test scripts using Postman
* Converting business requirements into YAML file, with req/response JSON and description.
* Onboarding the required opensource software libraries like elastic, Kafka, zookeeper, RabbitMQ and Redis.
* Creates Conceptual Solution/Vision for proposed projects and Architecture Effort Sizing/Engagement Estimating.
* Help and govern the testing team to come up with Test strategy &data team to come up with Data Migration and modeling strategy.
* Coordinate with architects and business experts across all LOB units to translate key strategic objectives into actionable and governable roadmaps and designs.
* Analyze business and technology challenges, assess costs, and suggest solutions.

**Environment:** Oracle Java8, Spring Boot 1.5.x, cloud config 1.3.3, cloud Eureka 1.3.5, Junit 4.x, SLF4J 1.7.x, Apollo GraphQl, Elastic search 5.5.x, Swagger, Redis 3.3.x, NodeJS 1.7, Restful API’s, Angular5, Kafka zookeeper, Red hat OpenShift, Netflix conductor, ping Open ID, JWS, JBoss EAP, Oracle 12, RabbitMQ, Spring Cloud, CICD pipeline with blackdock, Jenkins, Git, Visio, Ionic.

**MassMutual Insurance & Retirement Services, CT ,USA(SV Tech Inc.)  Feb 2015 to Aug 2016**

**System Architect**

MassMutual’s Retirement Services Division has been serving retirement plans. It offers a full range of products and services for corporate, union, nonprofit and governmental employers' defined benefit, defined contribution and nonqualified deferred compensation plans. It serves approximately 1.3 million participants. For MM RS, I provided 12+ projects solutions, New agency group onboarding, Record keeping system migration to new platform, Security integration for Vendor app moving to cloud utilizing SAML2.0 as Service provider & Identity provider, providing 2Factor Authentication for portals, Solution to maintain Retention policy around legal documents.

**Responsibilities:**

* Has in-depth knowledge of the domain(s) with understanding of stakeholder direction and strategy developed Architectural Blueprints, Technology Roadmaps, and Enterprise Architecture Solutions.
* Heavily involved in defining and implementing technology architectures and roadmaps for digitalizing retirement services. (CICD, Cloud, Global search, Single Identity federation and Click to chat…)
* Provided strategic inputs for future roadmap
* Developed Architectural Blueprints and Enterprise Architecture Solutions.
* Heavily involved in defining and implementing technology architectures.
* Creates Conceptual Solution/Vision for proposed projects and Architecture Effort Sizing/Engagement Estimating.
* Leading the scope analysis discussion with business stake holders and IT execution team to come up with sprint and user story planning and prioritization.
* Architecting & Designing component model.
* Coordinate with architects and business experts across all LOB units to translate key strategic objectives into actionable and governable roadmaps and designs.
* Analyze business and technology challenges, assess costs, and suggest solutions.
* Design and execute proofs-of-concept for critical enterprise capabilities like global search, including building business case with costs and benefits.
* Identify NFRs for the technical components involved in the solution and ensure they are implemented
* Develop and enable enterprise strategy, standards, directions and governance for evolving IT portfolio, enterprise architecture and execution using TOGAF, Lean Six Sigma and ITIL best practices/principles.
* Creates Conceptual Solution/Vision for proposed projects
* Responsible for Application Architecture and creating High Level Design deliverables
* Architecting & Designing an extensible solution while maintaining focus on performance throughout all components.
* Create Architecture Vision Document (AVD) and Architectural Design Document (ADD) consisting of Logical & Physical Component & Use case level Sequence Diagrams.
* Create Disaster recovery plan & standard work items.
* Establishes, maintains, and socializes roadmap for success in domain – achieving POA.
* Manages the technology portfolio (Troux).
* Translation of business need into IT application solutions
* Architecture of all technical componentry, including integrations between systems / components
* Provides technical leadership w/alignment to project needs and reference state
* Ensures technical design solutions meet principles, policies, and guidelines
* Ensures solutions adhere to Experience guidelines / principles throughout various phases of evolution
* Build prototype constructs (system configuration, infrastructure) to validate feasibility of hypothetical solution
* Collaborate with Business Analysts, Infrastructure Architects, and Developers to ensure infrastructure meets the need in an achievable, thought out, and effective way
* Driving technical issues resolution, review logs and be a key player in making the decisions of acceptability and take ownership of issues to resolution.
* Assist in the coordination of change and release management planning and related procedural activities
* Leading and mentoring others on the project team in the projects technical details, infrastructure, and other relevant nuances
* Escalation of issues and risks with the technical solution

**Environment:** SPARX Enterprise Architect, Microsoft Visio, TOGAF, Data power, Web Seal, Axway MFT, FileNet P8(SOAP/RESTful Web Services, IBM WAS, Apache Webserver, LDAP, Tivoli Identity(TIFM), Okta, AAOP(RSA), F5, SSH2, OBIEE, SAP BO, Tivoli Batch Scheduler(TWS), AutoSYS, Maestro, Oracle, Sybase, Informatica, CRM Siebel, Sales Force CLOUD, SRDF/A, DataGuard, Dynatrace, NetApp Storage/Files Mirror Snap, NetApp SRA, EMC SRA Site Recovery Manager

**State Farm Insurance, IL, USA(SV Tech Inc.)                            May 2012 to Jan 2015**

**Technical Architect**

Customer Driven Evaluation (CDE) – ICP/TP

State Farm is a top insurance and financial services provider - To align with State Farm Insurance's strategy to make Claim processing online and efficient for policyholder across the US and Canada, the CDE (customer driven evaluation) was started. ICP/TP (Integrated customer technical platform) Claim Management (Auto, Fire, Life Health) is one of the critical projects of the CDE program which is responsible for completing business and technical requirements, design, development and implementation for the ICP/TP Claim Management component of the new ICP Claims System. State Farm Insurance has started developing a product ICP Claim Component System. This is using latest technical platforms available in IT area like Spring, MuleESB, PostgreSQL DB, Data Power, Open AM, MEGA and J2EE architecture. This product is being developed to meet State Farm Insurance needs (application high availability (24/7), most real time data availability, customer friendly and reduce operation cost).

**Responsibilities:**

* Responsible for defining services in MEGA architecture repository.
* Assisted senior architects in developing current and to-be systems architecture artifacts as part of Refresh Architecture effort.
* Helped analyze legacy applications and systems to derive required business functions and rules from existing applications.
* Gathering technology and business landscapes, conceptualizing solutions, building enterprise technology roadmaps and strategies
* Involved in creating five-year roadmap, system, technical and data architectures for moving legacy claims applications to new platform which consist of integrating with native apps (IOS, Android)
* Translating the end state business and technology models into architectural blueprints, including providing recommendations for technology and third-party components and determination of the appropriate fit.
* Responsible for writing and exporting WSDL interfaces and contracts in WSRR
* Responsible for creating Service dependency diagram, Service definitions and operations, Non-functional requirements, End to End performance budget early estimates
* Worked with the project team in analyzing functional requirements using facilitated sessions and modeling tools that are used to build complete, accurate and easily understood requirement component design documents.
* Verified that all components of the code complied with Authorization and Authentication standards and that all customer data is secured to comply with State Farm Standards and Government regulations
* Used Visio and Mega to create BCD (Business component diagrams), Elevated level Design, Application distribution, system topology, Class Diagrams, Sequence diagrams, pseudo code, Test topology, Technical Capability Model, Security Solution diagrams
* Responsible for determining good end to end security solution and time funnel setup to meet consumer SLA
* Responsible for IT solution certificates, implementation and rollout plans
* Responsible for creating BVMs (Business volume matrix) to analyze the application performance
* Responsible for find out the application dependencies and strategic connection points input integration and system testing
* Conducted risk analysis as part of project criticality assessment
* Review and approve all technical deliverables as per ICP guidelines such as System Topology diagram, Test Environment Diagram, Component Specs etc.
* Identify different architect solutions and recommend options based on technology, skills, limitations, cost, resources etc resulting in creation of Architectural Decision Document (ADD).
* Created guidance on piloting and versioning of the services/application
* Performing Technical Checkout in Production Responsible for identifying Technical & Non-Functional requirements
* Prepared Application Distribution Diagram, Consolidated Design Document and Component Specification (detailed design) document
* Managed development team of 15+ resources

**Environment:** SOA, TOGAF, UML, Spring Framework, MULE ESB, SOAP/RESTful Web Services, JDK 1.5, J2EE, XML, SVN, Junit, RAD IDE, PostgreSQL, SQL, IBM WAS 6.1 & 8, Maven, MEGA, Microsoft VISIO, Active MQ, Data power, WMQ, Mainframe zOS, CICS, Cobol, LINUX, Web Seal, Open AM, LDAP, Data Power WSRR

**American Airlines, TX, USA (SV Tech Inc.)                       Oct 2011 to April 2012**

**Technical Architect**

Look ahead is a real-time tool that allows decision makers to better predict and measure the impacts of delays and disruptions throughout the system. It collects and stores planning and real-time data from multiple sources and provides common integrated data to end user applications identifies dependencies between aircraft, crew, gates, slots over time and space. It has evolved into a platform that feeds real-time information for many applications in airports, SOC and Revenue Management. This improves the accuracy and timeliness of ETD’s and it also alerts the SOC to delays with significant down-line impacts for possible move-up consideration. It comprised of a real-time data store, a forecasting model, and a browser-interface. It has evolved into a platform for the development of additional Operations decision support applications.

**Responsibilities:**

* Responsible for gathering the system requirements, prototyping, and suggesting the best and optimal solutions to customers
* Responsible for writing detailed functional and technical design documentation for the requirements, owning and controlling the documents
* Developed SOAP and REST based Apache CXF 2.7 web service using Contract first approach.
* Part of QE Review Team to ensure quality of the deliverable
* Wrote JUnit using EasyMock to unit test the web service and MUnit to test Mule ESB
* Developed SoapUI based Functional and Nonfunctional test suites and test cases
* Developed LoadUI based Early Performance Test Suite to ensure that it meets Performance Budget
* Developed multithread shell programming scripts using sh, ksh in UNIX environment
* Identified the classes and their relationships
* Developed Mule ESB flows for both synchronous and asynchronous calls using RabbitMQ and In-Memory Queue
* Mavenized existing Project & Setup Jenkins/Hudson job to run CI, Snapshot and Release builds
* Secure the web service using Basic Auth, SSOToken and SAML Assertions
* Created the design artifacts such as class diagrams and flow representation through the sequence diagrams
* Exposed services via DataPower and Message Broker. Both Data and Security Transformation was handled in the services
* Write Splunk Query to capture exception scenarios and raise HP Service Manager Incident
* Responsible for addressing critical production issues
* Responsible for ticket handling, issue analysis, providing work around solutions in shorter time in prod environment and coordinating and setting up conference calls with Infrastructure support, DBA, LDAP teams

**Environment:** Java, Spring IOC, Spring MVC, Mule ESB, Datapower, Web Services, JDK 1.5, J2EE, J2SE, XML, XML Schema, XSLT, SOAP, RESTful, SVN, Junit, RAD IDE 8.0, PL/SQL, Oracle11g Database Server, IBM WebSphere 6.1, Ant, Log4j, JSF.

**USAA, TX, USA (SV Tech Inc.)                                                    Jan 2011 to Oct 2011**

**Research Analyst/Sr. Java Developer**

United Services Automobile Association (USAA) is a Fortune 500 financial services company offering banking, investing, and insurance to people and families that serve, or served, in the United States military.

**Responsibilities:**

* Developed the application using Presentation Services Framework that leverages the Model-View-Controller (MVC) architecture
* Developed user interface using JSP, JavaScript and CSS
* Developed Java Standard Tag Library (JSTL) custom tags to render information in the user interface
* Developed various EJB components like Session Beans to process the requests from the user in order to fulfill the business functionality
* Performed database design and created the DDLs for creation of tables
* Wrote PL/SQL stored procedures and used JDBC API
* Extensively used Hibernate in the data access layer to access and update the information in the database tables
* Implemented XML Web Services using SOAP to obtain Integrated Services
* Used XML parser APIs such as JAXP (SAX, DOM) and JAXB in the web service's data marshalling process
* Used WebSphere Application server 6.0 for deploying various components of an application. Used DB2 as the backend

**Environment:** Presentation Services Framework, JSP, JavaScript, CSS, WebSphere Application Server 6.0, RSA, JSTL, XML 1.1, Star Team, Java SDK 1.4, Hibernate 3.2, LOG4J, EJB (Session Beans), DB2, Ant, Adobe Flex, JUNIT, UNIX

**Zolon technologies, Hyderabad, India July 2005 to Nov 2010**

**Java Developer**

WebAPEX is an industry leader in airlines automated prorating. It accurately prorates large volumes of tickets with highly complex Proviso and Special Prorate Agreements (SPAs). WebAPEX has the flexibility to capture multiple conditions like sales, travel, routing based condition, gateway condition, multilateral, fare basis conditions, tax etc.

**Responsibilities**

* Wrote spring configuration for dependency injection
* Implemented Spring MVC, Spring IOC, Spring AOP methodologies
* Designed prototypes of User Interface for application using HTML and JavaScript
* Deployed the application using WebSphere Application Server
* Used Front Controller, View Helper patterns for the front-end development
* Used Service Locator, Business Delegate, Session Façade, Data Transfer Object, Value List Handler and Data Access Object patterns across the application for Middle tier
* Developed Session beans which encapsulate the workflow logic
* Wrote SAX and DOM XML parsers and used SOAP for sending and getting data
* Used XML and style sheets to generically specify output content and presentation respectively
* Developed the reusable Java components
* Developed the DAO Classes for each module

**Environment:** JDK1.4, Web Services, J2SE, J2EE, XML, XML Schema, XSLT, SOAP, Apache Commons, J2EE Design Patterns, JSP, Servlets, JavaScript XML/XSLT, IntelliJ IDE, JBoss Server, Weblogic Server, Spring IOC, Spring 2.0, Spring MVC3.0, Hibernate, Junit, Oracle 9i, Maven, Windows XP, SVN, MULE Frame work, JMS, UNIX, ARIS.

**EDUCATION**

* Master’s in computer applications, 2004, Kakatiya University, India
* Bachelor’s in computer applications, 2000, Osmania University, India