**RAMKUMAR SRIDHARAN**

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**PROFILE** **SUMMARY**

A TOGAF 9 certified multi-skilled, highly hands-on result-oriented IT professional with strong experience in Enterprise Technology, Cloud and Solutions Architecture, Technology Practice, Pre-Sales, Delivery Management, and Full Stack Software Development for the Web, Mobile, Analytics, and Cloud platforms. A highly self-motivated individual with a strong knack for problem solving and consensus building. Highly skilled in providing viable and optimum solutions to reduce cost, maximize productivity and increase return on investment.

* Extensive experience in Enterprise Technology & Solutions Architecture, Cloud Application Architecture, Cloud Migration and Modernization, MicroServices Architecture, Full Stack Software Design and Development, Web Design and Development.
* Strong experience leading and enabling cross functional teams in/across multiple business engagements to showcase capability, provide demos, finalize scope, advise business on best course of action and successfully get the buy-in of the proposed solutions from the stakeholders for various business challenges and opportunities.
* Highly passionate in building robust large-scale complex high-volume, high-available products, platforms and applications through meticulous application of Quality Engineering, Performance Engineering, Performance Tuning, Application Security and Threat Modeling
* Highly Experienced in Cloud Principles, OO Design, Design Patterns, UML, ER Modeling, Dimensional Modeling, ETL, ELT, OLTP and OLAP techniques.
* Strong experience Architecting and designing solutions in Java, J2EE, Spring Boot, Spring Cloud, REST, SOAP, JPA, Akka, MEAN Stack, NoSQL, RDBMS, Cassandra, Kafka, Kafka Streaming, AWS Cloud, Apache Spark and many other technologies.
* Strong experience and adoption to DevOps and Agile SDLC culture using Scrum, Kanban.
* Strong experience in CI/CD, TDD, BDD, Unit Testing, Component Testing, Git, Git Bash, Jira, Artifactory, Maven, Ansible, Containerization, Docker, Kubernetes, Chef, Jenkins, JUnit, TestNG, Cucumber, JBehave, and Test Automation

**KEY TECHNICAL SKILLS**

Java, J2EE, PERL, Python, PHP, Akka, Spring Boot, Spring Cloud, Actuator, Spring REST, HATEOS, Spring Data, and JPA, AWS, Lambda, Serverless, S3, EC2, Aurora, VPC, IBM BlueMix Cloud Foundry, Azure, Angular, Mongoose, Express, NodeJS, Bootstrap, Backbone, HTML, CSS, Ansible, Docker, Kubernetes, Kafka, JMS, HornetQ, ActiveMQ, MoM, SOA, Camel, Web Services, RESTFul Services, Microservices, Apache Spark, Spark Streaming, Spark SQL, Hadoop, HDFS, MapReduce, YARN, Flume, Pig, Sqoop, Thingsboard IOT Platform, HTTP, MQTT, CoAP, gRPC, Google ProtoBuf, NoSQL, MongoDB, Cassandra, MySQL, Postgres SQL, Oracle, SQL Server, Tomcat, JBoss, IBM WebSphere, IBM BlueMix Cloud Foundry, OAuth, Security, LDAP, SSO, JWT, GIT, Maven, Jenkins, CI/CD, UNIX, Linux, Bash, and Shell Scripting

**DEMONSTRATED CORE COMPETENCIES**

Cloud Application Architecture | Cloud Migration | Technology Architecture |

Delivery Management | MicroServices Architecture | API & Platform Development

Product Development | Performance Engineering

**CERTIFICATIONS**

* TOGAF 9 Certified Enterprise Architect (~November 2012)
* Oracle Certified Professional, Java Business Component Developer for JEE 5 (~2010)
* Sun Certified Java Programmer, J2SE 5.0 (~2007)

**EDUCATION**

* MBA in Finance (1997), AM Jain College India
* B. Sc. in Physics (1993), Loyola College, India
* Honors Diploma in Systems Management, NIIT LTD (~1992), India

**AWARDS**

* Received Special Award for Exemplary Contribution from Servion Global Solutions (2014)

**PROFESSIONAL EXPERIENCE**

**Trianz, Inc Principal Architect*****Santa Clara, CA* Mar 2019 - Present**

*Client: Various*

* Provide architecture strategy and future state architecture and roadmap for both On-prem and Cloud based deployments.
* Owned architecture development for large scale, complex distributed, multi-year platforms and applications targeted towards on-prem and AWS cloud.
* Provide cross-functional leadership to many technical teams across multiple programs and enabled strong cross collaboration between business, engineers, testers, operations, and infrastructure team.
* Owned and evolved architecture standards and best practices, supported innovation, enabled and enforced architectural, design and coding standards and best practices.
* Architect and designed hands-on a super high-available, super high-volume (~30k TPS/instance) carrier grade asynchronous Rule Engine based Complex Event Processing (CEP) IOT platform for device/asset management including UI using Thingsboard IOT, Java, Spring, Kafka, Akka and Cassandra, Angular, NodeJS, etc.
* Architected and designed a RESTful Microservices using Java, Spring REST, Spring Data for Cassandra, and PostgreSQL
* Developed custom performance testing scripts for Kafka, Thingsboard IOT, and platform Microservices
* Designed and developed a rapid prototyping/POC to compare performance of MongoDB, Cassandra, and Neo4J along with Apache Spark and Thingsboard IOT to identify a potentially viable solutions stack for high-performance Asynchronous Events and Transaction Processing.
* Containerized applications and server components using Docker, Kubernetes for Postgres, Cassandra, Redis, Kafka, Zookeeper and various application Microservices.
* Lead multiple agile teams across geography consisting of engineers, testers and dev-ops professionals across engagements/clients.

**Environment:** Thingsboard IOT, Kafka, Java, Spring Boot, IO, AWS, Spring Security, REST, Cassandra, PostgreSQL, SNMP, JUnit, Jenkins, MVN, Angular, Express, JavaScript, Typescript, NodeJS, Redis, Docker, Kubernetes, OAuth, SSO, LDAP, RBAC, OWASP, CI/CD, Pipelines, Jenkins, TDD, BDD

**Opallios, Inc Senior Solutions Architect** ***Pleasanton, CA USA* Jun 2018 – Mar 2019**

*Client: Kaiser Permanente,*

I am responsible for the full-stack technical re-write, architecture, design, and cloud development of Kaiser’s legacy Self-Registration and Identity Access Management applications.

* Own and support the Full Stack Technical Architecture, MicroServices Architecture, Design, API Development, and Quality Engineering activities for the Self Registration Application.
* Own the Technology Migration, Modernization and Cloud Development and Deployment of Self Registration Portal application using IBM BlueMix Cloud Foundry, WebSphere, Java, J2EE, Spring Boot, Spring Cloud, Spring REST, DevOps, Jenkins, Maven, Git, and JIRA.
* Provide Agile Cross-Functional Technical Leadership for the entire squad consisting of 20+ members across UI, Services, DevOps, and QA stack.
* Collaborate closely with both Business and Management teams to understand and translate functional requirements into various technical artifacts and solutions. Co-own technical product backlog.
* Proactively looked for bottlenecks and areas of improvement in both application, processes, competence and skills and worked towards bridging the same.
* Hands on rapid solutioning, prototyping and proof-of-concept activities
* Serve as a Technical POC and interface with other API/Chapter and QA Leads, Architects, Delivery, DevOps, Operations, and other Application teams on a day to day basis.
* Support the Full Stack Application Development using Java 8, J2EE, Node.js, IBM BlueMix Cloud Foundry, IBM WebSphere Liberty Profile (WLP), Sprint REST, HATEOS, Microservices, Spring Boot, Cloud, Actuator, Express, Angular, AEM, Cucumber, JUnit, Mountebank, SOAP UI, Git, Sonar, Jenkins, CI/CD, Maven, Shell Scripting,
* Ensured Architectural and Development best practices and standards are followed and code quality and coverage are met as per KP requirements.
* Spearhead the KP’s enterprise quality initiatives by supporting the implementation of Coding Standards, Unit Tests, Component Tests, API Contract Tests, E2E Testing, Load and Performance Testing for the UI, Services and QA streams.
* Implemented various enterprise quality initiatives like Data Swap Protection, Hystrix Circuit Breaker, End-to-End Testing, Code Coverage, Unit Testing, Behavioral Testing, Contract Testing, Performance and Load Testing, etc.

**Environment**: Java 8, J2EE, Node.js, Redis, IBM BlueMix Cloud Foundry, IBM WebSphere Liberty Profile (WLP), Sprint REST, HATEOS, Microservices, Spring Boot, Cloud, IO, Actuator, Security, OAuth, 2 Way SSL, Netflix Hystrix, Express, Angular, AEM, Cucumber, JUnit, Mountebank, SOAP UI, JIRA, GIT, Sonar, Jenkins, CI/CD, Maven, Splunk, Linux, and Shell Scripting.

**VentureSoft Global, Inc Senior Java Developer / Consultant *San Leandro, CA*****April 2018 – May 2018**

**Client: Wells Fargo, Inc**

* Developed AuthZ and AuthC application for the identiy and access management of Wells Fargo
* Developed a use case and prototype for Mutation Testing for fault detection and prevention using PIT Mutation Testing tool.

**Environment:** Java 8, J2EE, Apache Kafka,Spring REST, HATEOS, Microservices, Pivotal Cloud Foundry, Spring Boot, Spring Cloud, Security, SOAP, Tomcat, Oracle, JIRA, GIT, Maven, Sonar, Jenkins, CI / CD, Linux, Shel Scripting

**Agreeya Solution, Inc Senior Software Engineer / Sr. Consultant *Rancho Cordova, CA*****June 2016 – April 2018**

*Client: VSP Global*

Was responsible for the re-write of legacy mainframe Claims application using Java / J2EE technologies;

* Provided Full Stack Architecture, Design, and API Development for the Claims application.
* Followed an Agile Scrum & Kanban based SDLC process.
* Architect, Design and develop cloud based multiple MicroServices using Java/J2EE, Spring Boot, Spring IO, Spring Data, JPA, Hibernate Spring AOP, Core, IOC, RESTFul Web Services and HATEOS
* Architect and designed a fault-tolerant claims mediation and routing engine using EAI, Apache Camel, Spring and Messaging components (JMS, IBM MQ, Message Driven Architecture)
* Designed and developed an Ordered Product Search feature using REST, Java, Spring and Cassandra.
* Developed reusable framework components for Retry Logic, Splunk Log Verification and Analysis, Introduced Mountebank for an Integrated Testing Platform using Mountebank & JBehave / BDD
* Conducted Code Review, Unit, Performance Testing & Capacity Planning activities for various Claims Modules using JUnit, Mockito, and JMeter.
* Setup Continuous Integration (CI), Continuous Deployment (CD) and monitor code quality and smell using Jenkins, Maven, Pipeline and Chef.

**Environment:** Java 8, J2EE, RESTEasy, HATEOS, MicroServices, EAI, Apache Camel, JMS, MOM, IBM MQ, DataStax Cassandra, Mountebank, JUnit, JBehave, Spring Boot, Spring IO, Spring Core, Spring AOP, Spring Data, JPA, JDBC, Hibernate, Angular, JavaScript, JSON, CI, CD, Pipeline, Git, BitBucket, Stash, Maven, Artifactory, JIRA, Jenkins, SonarQube, , Amazon AWS, S3, Docker, VMWare, Cloud, Linux, RHEL, WebSphere, WebSphere MQ, JBoss 6 EAP, Tomcat 8, IntelliJ IDEA, Eclipse, Agile, Scrum, Kanban, Splunk, Splunk REST API, BDD, TDD, MySQL, IBM DB2, OAuth, OWASP, SSO, PingFed

**Servion Global Solutions, Principal Architect / Director, Enterprise Architecture** **Chennai, India** **Apr’ 13 – Apr’ 2016**

*Servion Global Solutions - Product Engineering and Digital Services (PED)*

Servion Global Solutions is a leading service organization catering to business challenges and opportunities to Enterprises and Product OEMs in the CIM/CEM space

* Lead the Architecture and Technology Practice of Servion's Product Engineering Division and enhanced Servion's capability in the Web, Social, and the Analytics space.
* Provided Architecture Strategy, IT Vision & Product and Technology Roadmap at enterprise level.
* Served as a technical point person for Pre-Sales & Business Development. Contributed to RFE/RFI, SOW and Pre-Sales business cycle activities. Was instrumental in two major wins for Servion PED in the new Analytics space.
* Performed architecture analysis using ATAM, Gap Analysis, Stakeholder Analysis, and Application Portfolio Analysis techniques to study current / future state architecture and evolution. Maintained architectural standards. Created and oversaw implementation of enterprise wide best practices and standards.
* Provided architectural and complex solution development expertise using Java, J2EE, Python, NoSQL, Apache Spark, MongoDB, MicroServices, ESB, SOA, Web Services, RESTEasy, CXF, Spring Boot, IO, Data, Core, AOP, Remoting, IoC, Hibernate, ORM, In-Memory Hazelcast, Infinispan Distributed Cache, and RDBMS technologies.
* Provided Delivery Leadership for multiple key customer engagements and programs including P&L. Managed client engagement and delivery. Build and enhanced client relationship. Assured customer satisfaction.
* Strong ‘C’ suite facing experience in multiple business engagements to showcase capability, provide demos, finalize scope, advise business on best course of action and successfully get the buy-in of the proposed solutions to various business challenges and opportunities.
* Hands-on rapid prototyping, POCs and solution development activities experience.
* Managed a large team of software professionals including Senior Managers, Architects, Engineers, Freshers and New Recruits. Owned hiring, mentoring, skills development, team building, P&L, and budgeting activities.
* Supported the migration of an application from Greenplum to BigData using Hadoop, YARN, Apache Spark, Spark SQL, Spark Streaming, Pig, Sqoop, Flume and Kafka ecosystem.
* Devised Ingestion and ETL strategy to process large data-sets using Flume, Sqoop, Pentaho and Shell Scripting.
* Supported large scale batch and stream processing using Apache Spark, Map-Reduce, Hadoop, HDFS.
* Experienced in ER Modeling, Dimensional Modeling, ETL Mapping, ELT, JSON Data Models, Normalization, OLTP and OLAP activities.
* Provided architectural guidance and technical solutions to a ServIntuit/ServInsight (Predictive IVR) to a SaaS based product using Java, J2EE, Apache Spark, HDFS, Hadoop, MapReduce, JavaScript, JQuery UI and NodeJS
* Owned and architected a SaaS based Dashboard product that provides Contact Center Optimization Analytics utilizing Java, PERL, JEE, NoSQL, MongoDB, MEAN Stack, JQuery, JChartFX, and D3.js
* Supported cloud based development and deployments using Amazon AWS and Microsoft Azure. Provided product development oversight for the cloud including other private clouds.
* Contributed to architecture development of a Managed Services Platform (PaaS) that relies on Splunk, ElasticSearch, LogStash, Kibana, (ELK), Java, Python, J2EE, JavaScript to process log data for service desk dashboard
* Provided architectural guidance to different client engagements to create messaging layer that utilized JMS, Apache Camel, RabbitMQ, ActiveMQ, HornetQ implementations. Provided oversight for ActiveMQ Network of Broker Architecture implementation for performance and application scaling.
* Strong onsite/offshore co-ordination experience. Experienced in handling/managing large team of technical professionals.

**Airline Tariff Publishing Company (ATPCO) *Application Architect* Dulles, VA** **May 2008- April 2013**

TT Fares, TT Rules and New Market View (Fare Pricing and Fare Management Product Solutions)

ATPCO is the world leader and sole provider for collection and distribution of Airline Fares and Fare related data catered to almost 500+ Airlines, Travel Sites and Global Distribution Services (GDS) worldwide.

* Provided architectural leadership for a technology transformation (TT) initiative to modernize and replace ATPCO Mainframe Rules System to a multi-tiered, transactional, distributed, user-friendly system developed using Java and JEE technologies. Supplied technology vision, stewardship and direction oriented towards architectural planning, oversight, roadmap and evaluation for transition from baseline to target architecture. Increased customer satisfaction, reduce cost of ownership through effective use of open source technologies, and re-affirm ATPCO’s leadership position in the airline industry
* Lead the architecture, design and full construction (UI & back-end) for RBD, FareClass & General Rules applications using Java, J2EE, Spring, Hibernate, EJB 3.x, JPA, JMS, MQ, MOM, NoSQL, MongoDB, JUnit, EJS TreeGrid, WebSphere, Ant, Maven for a TT initiative from IBM MainFrame to distributed Java
* Developed a PaaS based Fare Pricing UI prototype using Sencha ExtJS, JavaScript, Java, JEE, JPA and MongoDB. Implemented an on-demand loading feature to load up to 10k records on the UI
* Responsible for ensuring non-functional requirements and performance KPIs are met or exceeded. Contributed to Framework development and enhancement and promoted code re-use. Reduced complexity and the cost of ownership.
* Integrated Fare Compare’s ([www.farecompare.com](http://www.farecompare.com/)) Fare Pricing Solutions with ATPCO’s Strategic Fare Management Suite of Products. Introduced NoSQL Mongo DB, Oracle Berkeley DB and designed a high-performance in-memory persistence layer to store, cache and retrieve large fare related data (response time < 50ms)
* Supported cloud based development and deployment for Ticketing Fees using Amazon (AWS) and EC2 services
* Directed and lead multiple cross-functional teams on various elaboration meetings to clarify requirements, finalize scope, developed high quality technical solutions, produced architecture and design artifacts, and oversaw construction efforts
* Oversaw implementation of OWASP and ISO27001 and supported activities to obtain PCI compliance