

Sathish Raman

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SUMMARY

- Working as Technical Architect with 13+ years of Java hands-on experience in Product development , Enterprise Application Integration, Application Security Platform , and Amazon Cloud Web Services.
- Has experience in building robust and scalable multi-tenant SaaS products from scratch using Java and Nodejs.
- Has experience in building serverless/event driven applications using AWS lambda .
- Has experience in designing microservices, system architectures, and data storage schemas for core backend.
- Has experience in building scalable REST based microservices on Spring Boot/Dropwizard/Spark Java.
- Has strong experience with both SQL and NoSQL databases, ranging from data model design to query optimisation.
- Has expert level proficiency in Service Oriented Architecture for enterprise application integrations.
- Has proficiency in working on Messaging systems like AMQ, RabbitMQ, Kafka and SNS-SQS.
- Has expert level proficiency in Enterprise Application Security platforms such as Identity Management, Access Management, Identity Federation - SAML (SSO) , OAuth , Kerberos and OpenId Connect.
- Has basic knowledge to solve the Big data problem by using hadoop ecosystem of projects.
- Has basic knowledge on building UI components using react and redux javascript framework.

PROFESSIONAL AND BUSINESS HISTORY

- Rakuten : Staff Engineer (Technical Architect) , Feb 2019 to till date. (1 year 10 months)
- AthenaHealth Technologies : Lead Member of Technical Staff , Nov 2017 to Feb 2019. (1 year 3 months)
- Keastone Software Labs : Technical Lead , Feb 2016 to Nov 2017. (1 year 9 months)
- Juniper Networks : Information Security Analyst 5, April to Jan 2016. (10 months)
- Cognizant Technology Solutions : Senior Associate , March 2014 to March 2015 (1 year 1 month)

- PricewaterhouseCoopers SDC: Senior Software Engineer, November 2012 to March 2014 (1 year 4 months)
- WIPRO Technologies: Senior Project Engineer, October 2007 to November 2012 (5 years 2 months)

EDUCATION AND CERTIFICATIONS

- Master of Science in Software Engineering from BITS Pilani Rajasthan University(2011)
- Bachelor of Computer Science from Thiruvalluvar University (2007)
- Certified in Oracle Service Oriented Architecture Infrastructure Implementation Certified Expert (2012)
- Certified in Oracle Certified Professional, Java SE 6 Programmer (2013)

TECHNOLOGY CAPABILITIES

Technical Areas	Skill Sets
Java/Node js	Java/J2ee, Rest Api,Node Js, GraphQL, SOAP Web Services , Dropwizard, Spark Java, Spring Boot, JSF and Oracle ADF
UI Technologies	HTML, CSS , Javascript and React /Redux.
Web Services	JAX-WS, JAX –RPC (SOAP) and RESTFUL Web Services
Database	Oracle DB 11g , MySQL , Postgres, Mongodb , Cocubase, Dynamodb ,Neo4j (Graph Db), Redis, SQL , PL/SQL , JDBC, Hibernate and Mongodb Jack
SOA	Oracle SOA Suite 11g - BPEL, Human Workflow,Mediator and Adapters Oracle Service Bus 10g
XML Technologies	XML, XSD, XQUERY, XPATH, WSDL , SOAP, XSLT, DOM, SAX, XML BEANS and JAXB
Identity and Access Management	Identity Federations : Oauth 2.0 , SAML , Openid Connect and Kerberos, Oracle Identity and Access Manager (11g R2 PS3), Oracle Directory Services (OUD, OVD, OID, ODSM) ,WS02 Identity Server,Sailpoint Identity Manager /IIQ,JWT Tokens and Vault Key Management, Coarse Grained vs Fine grained access control
API Gateway	Apache Knox, Kong Gateway, Tyk and Oracle API Gateway
Hadoop/Big Data	Having Basic Knowledge on HDFS , MapReduce, Hive , Pig and Hbase
Amazon Cloud Services	Lambda Functions, S3 Bucket, Cloud Search , RDS, SQS, SNS, KMS, Route 53,Elasticache, EC2 Container Services and Dynamodb
Messaging System	AMQ, RabbitMQ, Kafka, SNS-SQS, Kinesis.
Search and Indexing	Apache Solr and ElasticSearch

IDE	Eclipse, Weblogic Workshop, Jboss Studio JDeveloper, VI Editor.
Deployment Servers	Oracle Weblogic Server 10.3.3, Apache tomcat and Jetty
Versioning Tools	IBM Rational ClearCase-V7.0, SVN , CVS and GIT
Build and Deployment	CI - Jenkins, Maven, Ant and Gradle
Log Management	Sentry , Loggly and ELK
Scripting Languages	Unix commands /Shell Scripting, Javascript
Operating System	Windows XP, 7, Mac and Linux/Unix

PROFESSIONAL AND BUSINESS EXPERIENCE

Rakuten: BPE (SAAS Product)

Role: Technical Architect

Duration: Feb 2019 to till date. (1 year 9 months)

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BPE Platform: Bulk Processing Platform developed for solving bulk processing needs.

Rakuten ecommerce has more than 50000 merchants who currently use the regist (legacy) system for registering items which are sold in the shop. Before and after super sale week there will be a very high load on the system as every merchant is trying to register/deregister items sold in his shop.

Problems With Regist Platform:

1. Regist is a very legacy system which was built around 20 years ago hence adding new features and scaling to high load is very difficult.
2. Regist was developed only to solve merchant data processing needs. This tool can't be used as a generic solution for processing any kind of data.
3. Regist SLA to process merchant files is 2 days hence merchants have to wait for a longer time to register or deregister items sold in the shop.

BPE platform is built to solve all the above issues. Also BPE is a very generic system which can be used in any business domain to process bulk of data.

Responsibilities and key deliverables:

I have played all 3 roles for building such a highly complex system over the last 2 years.

- Technical Architect
- Senior Developer (developed 40% code base)
- Managed a team of 9 developers

1. I have done the High Level Design for building such a complex system.
2. I have contributed to 40% of the code base during this product development
3. I have worked closely with Business , Director and QA and Development to build the product from scratch,
5. I have done Low level design as well as mentored developers in implementing the solution.
6. I have also played unofficial engineering manager along with architecture contributions for some time as project needs,
7. I have played a significant role in scaling the BPE system 7x times faster than the existing regist system.

Key Components	Features	Tech Stack
12 Java Microservices	<ol style="list-style-type: none">1. Integrated with 15 plus Rest Apis2. Handled Caching3. Transformation4. Grouping5. 100 plus Validations6. Custom Json for on boarding any clients.7. Mail Notifications.	<ol style="list-style-type: none">1. Java 82. Spring Boot Microservices3. Junit . Mockito for 80% code coverage5. Jenkins and Rakuten One Cloud for deployment.6. MySQL , Couch base7. Kafka8. S3 Buckets

AthenaHealth: QMAAS (SAAS Product)

Role: Design and Development

Duration: Nov 2017 to till date

QMAAS project aims at providing quality score to patients and EHR providers. It's an Real time data processing and analytics engine platform to see patients quality score as well as EHR providers quality score.

We have used AWS Lambda serverless architecture to process the data from legacy application to new platform.

We have built a reporting dashboard UI to view the patients score. This module was built using React /Redux Framework.

.Responsibilities and key deliverables:

Designed and Developed following Micro Services from scratch using java/node js apis.

- o Built export workflow to download XML files.
- o Built import workflow for uploading and processing XML files.
- o Built data processing workflow to bring data from legacy applications.
- o Built a Measurement engine to calculate the patient score based on source data.
- o Built test framework for automated unit testing.
- o Built reporting dashboard UI for viewing score , for uploading XML files and for downloading XML files.
- o We have scaled these services for all Athena EHR providers.

Keastone Software Labs: IRIIS 1.0 (SAAS Product)

Role: Design and Development

Duration: Feb 2016 to Nov 2017

Keastone is a US Corporation based in San Francisco, CA, USA with operations in Central Europe and India. Keastone is an early stage venture focused on the universal challenge of information fragmentation for the individual user. Keastone spent two years conducting user research and designing, developing, testing a prototype solution called IRIIS to address the challenge.

IRIIS addresses the problem of information fragmentation. Keastone defines information fragmentation as: the creating and storing of information in disparate systems resulting in silos of information that does not effectively or holistically interact with each other.

Consequences of information fragmentation include:

User Fatigue

Productivity Inefficiencies

Backup Fragmentation

Security Vulnerability

Collaboration Limitations

IRIIIS is an information hub that serves as the central organising principle for a user's information from disparate systems or sources. IRIIIS is agnostic to the source of information. The objective is to simply allow a user to holistically manage their information via one integrated user interface.

.Responsibilities and key deliverables:

Designed and Developed following Micro Services from scratch using java/rest apis in dropwizard framework.

- o Iriiis Calendar
- o Iriiis Drive
- o Iriiis Account Mgmt
- o Iriiis Topic Mgmt
- o Iriiis Integration Mgmt (Third party API integration using OAuth)
- o Iriiis Contact
- o Iriiis Search
- o Iris Scheduler

Juniper Networks: OIM Self Service Portal Development

Role: Design and Development

Duration: April 2014 to Jan 2015

Juniper Networks offers high-performance network solutions to help service providers, enterprises & the public sector create value & accelerate success

.Responsibilities and key deliverables:

- ✓ Involved in SSO/SAML configuration for juniper partner & internal facing applications.
- ✓ Involved in Developing Custom OIM Self-service UI.
- ✓ Involved in developing BAM - Monitoring Tool for integration team. AMQ was used for message processing.
- ✓ Involved in Case Manager Redesign project.

Cognizant Technology Solutions: Oracle Fusion Middleware Development

Role: Design and Development

Duration: March 2014 to March 2015

Allstream is a Business Communications provider based in Toronto, Ontario, that provides IP connectivity, managed IP services, unified communications and voice services through its 30,000 km national fiber network.

Responsibilities and key deliverables:

- ✓ Involved in SSO configuration for Allstream client
- ✓ Involved in RTA (Dubai Government) Oracle Identity & Access Manager RFP proposal bidding.
- ✓ Learnt Basics of Hadoop Ecosystem.
- ✓ Given 5 days Training on Oracle Identity & Access Manager to Internal cognizant team.
- ✓ Designed and Developed SOA/OSB interface of key sight environment.
- ✓ Involved in internal API-Now Product development activities.
- ✓ Involved in Month End closure Automation Product Development.

PricewaterHouseCoopers: Oracle IAM Development

Role: Design and Development

Duration: Nov 2012 to March 2014

Designed and Developed a Custom SOA/OSB/ADF/JAVA Components In OIM 11g R2 for leading multinational retailer of technology and entertainment products and services generating more than \$50 billion in annual revenue. This is an upgrade project from OIM 9i to OIM 11gr2.

Responsibilities and key deliverables:

Oracle SOA/OSB Implementation :

- ✓ Designed and Developed Restricted Area Access Approver workflow using OSB, BPEL, Human Task and Business Rule components.
- ✓ Designed and Developed Organization Approver workflow using BPEL, Human Task and Business Rule components.
- ✓ Designed and Developed User Manager Service using BPEL, SOA Adapters and OIM API's.
- ✓ Designed and Developed Role Manager Service using BPEL, SOA Adapters and OIM API's.
- ✓ Oracle SOA Workflow Email Notification Configuration.

Oracle ADF Implementation:

- ✓ Designed and Developed Custom Catalog Search Help Module Using POJO based Data controls/ Business Service.
- ✓ Designed and Developed Custom Mainframe Password Reset Module Using POJO based Data controls/ Business Service
- ✓ Designed and Developed Custom PeopleSoft Reconciliation Manager Module Using ADF BC based Data controls /Business Service.
- ✓ Designed and Developed Custom Password Manager Module Using ADF BC based Data controls /Business Service.

Oracle Identity & Access Manager Implementation:

- ✓ Installation and configuration of OIM 11g R2 and Active Directory.
- ✓ Integration of Oracle SOA and ADF modules with Oracle Identity Manager Suite.

- ✓ Developed ICF connectors for provisioning/recon event.
- ✓ Developed Scheduler Jobs for Role Creation and Role Member Assignment.
- ✓ Developed Event Handlers for User Profile Validation.
- ✓ Created Custom UDF fields in the User Profile and Catalog form Data.
- ✓ Installation and Configuration of CVS for Repository Management.
- ✓ SSO for ETS internal applications

PricewaterHouseCoopers: : Custom Sailpoint Wrapper Utilities

Role: Design and Development

Duration: Dec 2012 to February 2013

Designed and Developed Java Utility Wrappers around Sailpoint Access Governance for Southeast Asia's leading media organization with businesses in print, Internet and new media, television and radio, outdoor media, and property. The Key objective of the project was to develop three utilities: [1] HR Feed Pre-processing Utility, [2] IIQ Applications Load Utility [3] Password Management Utility. The Hr Feed Pre-processing helped to automate loading of data from multiple data sources, de-duplication and reconciliation of 'people' records being loaded. The IIQ Applications Load Utility enabled IIQ Systems Integrators to on boarded large volume of similar target applications into the IIQ based on an existing IIQ application definition template in semi-automated fashion. The Password Management Utility enabled the End-users to reset and synchronize application passwords via the Windows desktop logon page, via Lotus Notes or via the browser. A custom web application was developed with forms based authentication (and secret questions and answer based authentication), password reset and synchronization of password to individual's application accounts.

Responsibilities and key deliverables:

RESTFUL WebServices/JAVA Implementation:

- ✓ Designed and Developed RESTFUL Web Services in Sailpoint IDM using JAVA/Sailpoint API's.
- ✓ Designed and Developed Password Manager Self-service Web Application using JSF/Java framework.
- ✓ Consumed RESTFUL Web Services from Password Manager Web Application using JERSEY Client api's.
- ✓ Designed and Developed HR Feed load utility using core Java.
- ✓ Designed and Developed Application Load Utility module using core Java.

Wipro Technologies : Oracle Fusion (SOA) Development

Role: Design and Development

Duration: Jan 2010 to Oct 2012

The client is one of the global leaders in Credit Cards Business located in UK. The project goal was to replace the legacy application with Oracle SOA/BPM/ADF components.. This project was executed in 3 phases.

Responsibilities and key deliverables:

Oracle Service Bus Implementation :

- ✓ Designed and Developed Application OSB Service. This service includes 6 operations.
- ✓ Designed and Developed Fraud OSB Service. This service includes 3 operations.
- ✓ Designed and Developed Decision OSB Service. This service includes 2 operations.

Oracle SOA Suite/BPM Suite Implementation:

- ✓ Designed and Developed Secure card Service using SOA Suite components. This service includes 3 operations
- ✓ Designed and Developed Data Acquisition Service using SOA Suite Components. This service includes 9 operations

Oracle ADF/JAVA Implementation:

- ✓ Designed and Developed Tele Apps (Credit cards App) Screens Using Oracle ADF framework.
- ✓ Consumed OSB Web Services from JAVA Business Layer using clientgen and wsimport commands.
- ✓ Designed and Developed HTML Prototype wireframes for TeleApp Module Screens using HTML, CSS and JS.
- ✓ Stored Data into Oracle DB using CLOB data type. Transformed UI inputs into XML data using XML Beans parser.
- ✓ Removed Tuxedo Service call from Business Service layer and replaced with OSB service calls.
- ✓ Developed Custom PL/SQL script to purge 180 days older records from 17 complex parent- child tables using driver table concept.

Wipro Technologies: RAID Application Development

Role: Design and Development

Duration: Feb 2008 to Jan 2010

The client is one of the global leaders in Credit Cards Business located in UK. The project goal was to support the development team on all build and release activities, and enhance the existing application functionalities.

Responsibilities and key deliverables:

- ✓ Designed and Developed 17 small/medium/complex modules in RAID web application.
- ✓ Developed logging modules using Unix Shell Scripting.
- ✓ Prepared Unit Test plan, Build Review Report, Code Review Checklist, LOC and TDP and provided testing support

- ✓ Designed and Developed Product Book EJB Service.
- ✓ Designed and Developed Custom JAX-WS webservice for fetching Product Book Details from downstream systems.
- ✓ Designed and Developed JSF screens for capturing additional card holder details.
- ✓ Altered the middleware/db layer i.e db , tuxedo to pass the additional information to downstream systems.
- ✓ Involved in Deployment and Packaging activities for Dev., test, SIT environments.

ONSITE EXPERIENCE

- Travelled to the UK – Nottingham in Business VISA for 3 months for doing the initial requirement and Design activities from client place.

DESIGN AND TEAM LEAD EXPERIENCE

- Involved in High Level and Low Level Design activities in most of the projects.
- Played module lead role in 5 projects also maintained a team of 4 to 5 members.

AWARDS/ACHIEVEMENTS

Awards received as of today.

- Received “Best Performer” award (2013) for SPH project (Pwc)
- Received “Best Project” award (2012) for CCD Project (Wipro)
- Received “FMIC” award (2011) for ECM project (Wipro)
- Received “Shining Star award” (2010) for FUSE Project (Wipro)
- Received “FMIC “ award (2010) for CCD Project (Wipro)