

Harshad Prakash Bhagwat

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Professional Profile

Summary

I have around 15 years of Technical experience in solution analysis, design, development, testing and implementation of J2EE Applications. I have hands on experience on the latest trends like TDD, CI, CD, Micro Services. I have successfully worked on complex projects in implementing J2EE designs and implementation of application software and have good exposure to OOAD. I have good team leadership skills and invariably met client expectations.

Technical Skills

<i>Languages and Scripts</i>	:	Java (J2EE/J2SE/J2ME), XML, XSL, Web Services, PL/SQL, HTML, JavaScript, REST, PHP
<i>Java Technologies</i>	:	JSP, Servlets, JPA, Micro Services, Swagger, Sprint Boot, Spring, Hibernate
<i>RDBMS</i>	:	MySQL 5.5
<i>Web Server</i>	:	Tomcat, Zend Server (PHP)
<i>Workflows</i>	:	SunGard IPP, IBM Lotus, Iopsis Workflow Engine
<i>SCM Tools</i>	:	GIT, CVS, SVN
<i>IDE & GUI</i>	:	Eclipse
<i>Build Tool</i>	:	Ant 1.7, Maven, Putty, WinSCP
<i>Operating System</i>	:	Windows 95/NT/2000, Linux
<i>NoSql DB</i>	:	MongoDB
<i>Defect Tracking Tools</i>	:	JIRA
<i>Reporting Tools</i>	:	Jasper reports, Crystal reports
<i>Continuous Integration</i>	:	Jenkins, Docker (Preliminary Knowledge)
<i>Static Code Analysis</i>	:	Find Bugs, PMD
<i>Agile Methodology</i>	:	SCRUM

Work History – Project Details

Company: FIS (Former SUNGARD)

JUN 2006 – Till Date

<u>Project Name</u>	: <u>COMPASS Modernization (COMO)</u>
<i>Duration</i>	<i>: Mar 2018 to till date</i>
<i>Client</i>	<i>: Principle Finance Group, Other Clients of Compass</i>
<i>Brief</i>	<i>: Compass is a leading Policy Administration system developed in the late 1990's, that allows Insurance Companies to administer many lines of business ranging from Individual to Group plans, and from Risk to Investments products. With the continually evolving landscape of Information Technology, FIS is committed to providing its clients a modern Policy Administration system. This project sets the vision for the next 5 years of the Compass modernization effort. Customers are encouraged to engage in this modernization effort, so that the evolution of the Compass application within their infrastructure provides business value as soon as possible. Currently as part of Phase I, this project has started exposing the various Compass features as isolated micro services in the form of rest services. Once this is done, a UI layer in the form of HTML5 will wrap it and the traditional logic will be transformed. On the CID front, we are writing Junit test cases for every controller and service classes using Mockito and make sure the piece gets tested from all the use cases. For documentation of the API's, swagger and swagger ui is used. This makes the documentation of the services easier to consume in comparison with the current Compassi.dtd documentation</i>
<i>Technology</i>	<i>: Spring Boot 1.5, Oracle, Hibernate 5, Spring 4.3, Swagger 1.5, GIT, PostMan, Scrum Agile Methodology</i>
<i>FIS Products Used</i>	<i>: Compass</i>
<i>Role</i>	<i>: Architect</i>
<i>Contributions</i>	<i>: I have been shifted to this project recently thoroughly Internal Job Posting. I am playing a role of an Architect in this project. Along with helping team in identifying the micro services and spring boot components, I am doing the code reviews for all the developer's code. In addition, I am designing the solutions for the generic solutions and new implementations in the product. Recent POCs I did in this project are Java Doc implementation using JAutoDoc, Internationalization in Spring Boot, Swagger version upgrade, Service-Controller validation layer etc. Currently I am developing a code generator for this project which will generate the Spring Boot Controller, Repository and Service classes for the mentioned entities. I am also considering the Junit test cases generation as well. We have been following SCRUM agile methodology in this project and for every sprint we have the typical Sprint planning/Grooming/Retro meeting. In this project, we are using the Story point approach rather than the Estimation.</i>

Project Name : **Infinity Registry (Infinity SaaS Platform)**

Duration : Jun 2008 to till date

Client : INTERNAL CTO PRODUCT

Brief : Infinity Registry is a CTO product used to maintain all the asset, product and project data across the organization. It is the data hub for all important entities in the organization. It aimed to develop a complete platform for all financial products of the SunGard and true cloud computing, offering SaaS, PaaS and IaaS to users. There are mainly four modules named solution registry (for setting up and configuring solutions), Storefront (where individual customers can buy and procure the solutions), Billing Hub (where billing of all the procured solutions is done) and infrastructure portal (Set up IaaS and PaaS) for the users. Currently the Storefront module is not getting used anymore.

Assets and products are being registered in Registry and referenced across. IPP workflows are used at various places like Asset Registration, EAM Flow, End of Release, Technology Governance etc.

We have been following SCRUM agile methodology in this project and for every sprint we have the typical Sprint planning/Grooming/Retro meeting. In this project, we are using the Estimation approach here to evaluate the stories prior to the implementation.

Technology : Hibernate 5, Spring 4.3.5, MySQL 5.5, Tomcat 7, SAML, Rest Easy 3, Struts, JSP, Maven, Ant, Jackrabbit, CXF, Google Guava

SunGard Products Used : IDP 2.0 to 4.11, IPP 4.3 to 7.11

Role : Sr. Software Engineer to Architect

Contributions : This is the product I worked on for most of my career. Though it is a single product, it is a CTO product having various features and I got an opportunity to code/design and plug various technologies and implement different solutions throughout the journey. From last 9.5 years, I worked constantly towards making the product robust, include all the changes/new features suggested by CTO heads and our managers and always delivered on time. Some of the important things in this project where I worked are -

- IDP integrations – Infinity Registry is a product based on IDP framework and to get latest features of IDP framework, we upgrade to latest IDP versions throughout 1-2 years. In Registry, I am playing the role of upgrading the IDP version from last 9 years. I upgraded IDP version from 1.1 to 1.2, 1.2 to 1.3, 1.3 to 2.2, 2.2 to 4.3. For 4.3 to 4.11, I analyzed the efforts and handed over the task to another senior colleague.
- IPP Integrations – Like IDP framework, Registry uses IPP framework for all his workflow needs. IPP is again a SunGard framework. I

- am the person from Registry who is upgrading IPP versions on regular basis. I did IPP 4.5 to 5.4, 5.4 to 7.1 upgrades in Registry.
- RUF Framework – Though I am not an expert in HTML 5 and Angular JS, I helped the team during these framework migrations and overall design strategy.
 - SAML IDP SSO – Implemented SAML based IDP SSO in Registry application for login. Synched the user data from IDP to Registry on authentication.
 - Spring Remoting for Registry-IPP – To communicate between Registry and IPP, spring remoting layer has been established. I established this layer along with all the authentication via the HTTP invoker.
 - Rest Easy – Registry uses Rest Easy to build the rest services. I played an important role in introducing Rest Easy in Registry and now all the Registry rest services are built using Rest Easy.
 - Jackrabbit File System and replacement by DB – Infinity Registry is a data hub where all the major IDP and other releases are registered as Assets, so they have attachments as their binary releases. In addition, all the attachments in Registry are getting stored in Jackrabbit file system. I was involved in the initial design of Jackrabbit File System layer (7 years back) along with the Architects in the project. Later I continued improving this layer and making it performance effective by adding indexing and single attachment approach across multiple Assets. Last year due to the increasing size of Jackrabbit file system and overall attachment fetching issues, I took an approach of migrating the data from Jackrabbit to Database. I took this task and converted all the Jackrabbit data to MySQL blob data by using best compression system. As a result, almost 17 GB of Jackrabbit file systems got compressed to 6 GB database. Currently working on other features like implementing archiving system, size restrict of attachments, indexing of this database.
 - Contributions to IDP – While working on IDP Migrations, contributed for the bugs/fixes at various points to IDP and got appreciated for this. While working on IDP 4.3 migration, I wrote separate projects for the JSP-Structs layer, Jackrabbit File System, Service layer based on Structs as all these things were removed from IDP 4.3 and Registry still needed that to support JSP framework. I contributed these projects to IDP and various other projects used them who had similar requirement. Got appreciated for this from IDP team Architects.
 - IPP Processes – To support workflows in Registry, we are extensively using IPP framework (SunGard Internal product). I designed various IPP processes to support the workflows and still designing/fixing them for further enhancements. I am also assisting other colleagues to help designing better processes.
 - eNumber Migrations – Recently I worked on migrating existing legacy login names to the new eNumbers. I provided an easy upgrade which was flawless and even considered by IDP team as they had some bad experience in their migration process.
 - Various Scheduled Jobs – As an extension to IDP Jobs functionality, Registry provides jobs for various needs like Solution Central Product Sync, App Sec Dashboard, Tickler Emails etc. I provided all such jobs with effective performance results. I implemented

batching of records processing at various places to enhance the performance of the jobs.

- *Site Core User Registration – Site Core was the SunGard's user registration site. I implemented a user registration process and web service for this which was used by Site Core to register all the users in Registry and in turn to IDP. This was one of the heavy use of Registry from Organization.*
- *End of Release – This is a process to formally close out a new release of a product. This is a compliance process mandated for all the products. I am working closely on this with regards to all the feature changes.*
- *Technology Governance - Approval and capture the new technologies introduced by line of business teams. This is the process requested by CTO Troy and Don Wood is interested in it. As part of team and design provider, I worked with senior members closely and we designed the solution for this. I developed the IPP workflow process and monitored all the development.*
- *Transaction issues – While working on Registry, several times we faced transaction issues. Asset registration in Registry is very complex process and lot of heavy operations and parallel processing of various entities involved in this. So transaction management was crucial part in this.*
- *Performance analysis – Since Registry is a data hub and lots of entities gets registered across organization, performance is a key factor and I always played important role in this. For all upgrades, I wrote batch updates and multiple thread spawns which reduced the overall processing time and added boost.*
- *Credit Card – While working on the Storefront application, I integrated the Cyber Source Credit Card API and displayed the payment page and processing of the same.*
- *SFDC – Worked on SFDC API integration for the Lead and Contact creations. Also worked with the team for the Campaign Lead creation and CRUD operations with SFDC.*

Project Name : **Solution Central**

Duration : Jan 2017 to till date

Client : INTERNAL CTO PRODUCT

Role : Architect

Technology : PHP 5.4, Docker Container, Red Hat Linux VM, Zend Server

Contributions :

- *Introduced the SAML based IDP login in the existing PHP application.*
- *Installed PHP 5.4 on a new Red Hat Linux VM.*
- *Upgraded the existing PHP to 5.4 and made Solution Central up and running there.*

Brief : *Solution Central is a FIS product having almost same concept as Infinity Registry for containing FIS Assets and Products data. It is a PHP application. Very soon we will be developing communication layers between Registry and Solution Central to exchange the data so that the SunGard and FIS products will be in sync.*

Project Name : **CSA (Now formerly known as IDP)**
Duration : Feb 2006 to Jun 2008
Client : INTERNAL CTO FRAMEWORK
Brief : CSA was the framework used across SunGard for the SaaS approach. CSA provides way to the products to migrate and consume as a framework. It has various common services and individual service can be given based on authorizations. It has CRUD operations for various entities and drives based on common service and authorization module.

Technology : Java, MySQL DB, Tomcat, Spring, Hibernate.
Team Size : 10
Role : Software Engineer/ Sr. Software Engineer
Contributions :

- Core module development like Authorizations, Authorization Groups, Common Services.
- Hibernate service layer initial development contribution
- Maximum defect fixes
- CRUD operations generalization and mentoring others

Company: lopsis Software

Aug 2003 – Jan 2006

Project Name : INFINITY
Duration : Aug 2003 to Jan 2006
Client : Endura Mobility
Brief : This product was a J2ME application where user can get register himself from mobile and via web services, the information goes to java servlet. When the servlet receives the request, it initiates a work flow and the concerned person gets a task and complete the flow.

<i>Technology</i>	:	J2ME, Servlet, JSP, Web Services
<i>Team Size</i>	:	5
<i>Role</i>	:	Software Engineer.
<i>Contribution</i>	:	<ul style="list-style-type: none">• Developing J2ME applications for the product• Testing on simulators along with web service calls• SVG Analysis• Iopsis Workflow framework contribution• JAAS

Educational Qualification:

- Completed Master of Computer Science from Pune University in July 2003
- Completed Bachelor of Computer Science from Pune University in June 2001

Personal Details:

Date of Birth: 06 Sep 1980