

Dhirendra Negi

SOFTWARE ARCHITECT, IBM INDIA SOFTWARE LAB

EXPERIENCE

I am Master of Computer Applications (gold medalist) having **19+ years** of experience in delivering complex business solutions with proven records. Worked with different fortune 500 companies like Citibank, Merrill Lynch, Daimler Chrysler, Bank of America, SUN Microsystems and other Banks & Financial institutes to name a few.

I have got years of onsite experience working in countries, like US, UK, Australia and Switzerland. I've Designed & Developed high performance distributed solutions based on Java, J2EE, MVC, SOA, Cloud, SCA, ESBs, Webservices, Websphere Business Integration, Brokers, JMS

Worked on different tools and techniques like Java, J2EE, Cloud, AngularJS, Servlets, JSP, JSF, SOAP, REST, Spring, Hibernate, Webshpere MQ, Weblogic, XML, XSL, C, C++, NodeJs, OOP/OOD, UML, Rational Rose, Enterprise Architect, SAAS, Docker, Microservices, NoSQL, API economy

I have worked on different types of software/product development methodologies like Waterfall, Agile, SCRUM, Test Driven Development, and Continuous Integration/Deployment.

My functional domains include Retail & Corporate Banking, Financial messaging, Payments & Clearance, Loans & Mortgages, Leasing & financing, e-learning & developing complex frameworks and platforms. Sun Certified Enterprise Architect (part-1)
TOGAF Foundation (Paper-1)

EDUCATION

- Master of Computer Applications, Gurukula K. University, Haridwar, U.P., 1998 securing 78% of marks. Topper of the batch.
- B Sc (H) Electronics, Sri Venkateshwara Collage, Delhi University, New Delhi, 1995 securing 65% of marks
- 10+2, Ganesh Shankar Vidhyarthi Model School, Sarojini Nagar, New Delhi, 1992 securing 81% marks
- 10th, Ganesh Shankar Vidhyarthi Model School, Sarojini Nagar, New Delhi, 1992 securing 84% marks

PROJECT DETAILS

IBM ISL INDIA LTD (FROM MAR 16 - TO DATE)

PRODUCT - Watson Cloud File Xchange

Client: IBM Commerce, IBM Supply Chain

Technologies: Java, Ubuntu, SpringBoot, MongoDB, Docker, ELK Stack, IBM API Connect (Strongloop), Node.js, Angular2, Microservices, Git, Docker, Kafka

This product is IBM's cloud based multi-tenant multi-channel SAAS offering to transfer file between financial institutes and banks in highly secure environment. Supports multiple protocols, is highly secure and gives you real-time file tracking views and visibility. Microservices based architecture, it uses AngularJs, APIC, Springboot, kafka, mongoddb, docker and kubernetes to achieve the security, scalability, availability and performance. It is SAAS deployed on Softlayer(IAAS) on top of BlueMix(PAAS).

As Advisory Software architect, my role is to oversee the architecture, design and development of the product. Give technical leadership to the product managing multiple stakeholders i.e distributed dev team, Management team and Offering team.

INFOSYS LTD (FROM OCT 10 – FEB 16)

PROJECT – eFinacle – Internet Banking Application

Client: Infosys, Finacle, ANZ Bank at various locations

Environment: AIX/Solaris/Windows OS/Machines, Websphere App Servers, MQ Series, JMS, Java, J2EE, EJBs, SOAP & REST Webservices, SQL Server

I have been responsible for Design and Architecture multiple projects and processes under this account. Initiative taken during the program

- Leading offshore team in terms of Architecture and Design
- Service Oriented Architecture using SOAP, RESTful Services
- Multi-Channel rich UI framework using JQuery, AJAX, AngularJS, Bootstrap, etc.
- Asynchronous communication using JMS/MQ
- Application Security
- Payments and Core Banking Integration

Role: Sr. Technology Architect

- **Leading a group of architects**
- **Lead Architect to a team of more than 80 offshore and onshore team members.**
- Designing, Code Reviewing, Refactoring & maintaining quality of code
- Design discussions with different stakeholders
- As offshore Lead Architect my role is to conceptualize and formulate Architecture and Design principles and make continuous effort to meet them in daily activities.
- Implementing Agile processes and development methodologies

ORACLE (OFSS) (FROM OCT 08 – OCT 10)

PROJECT – Oracle FlexCube Messaging Hub (A Payment Service Bus)

Client: Tier 1 Banks likes of Citibank, Deutsche bank, and AIB etc.

Environment: AIX/Solaris/Windows OS/Machines, Websphere/Weblogic App Servers, MQ Series, JMS, Java, J2EE, EJBs, C/C++, SEDA based Bus Architecture, XML/XSL/StAX, Webservices, Oracle

The product is a payment messaging hub or service bus based on Staged-Event Driven Architecture to achieve high throughput. The aim of the product is to simplify the process of messaging between banks and financial institutions. There are different types of messages are sent from Banks to financial institutions or vice-versa and OFCMH works a gateway for FI's to sort out the routing and re-formatting requirements.

Role: Sr Engineering Manager Level (M3)

- Technical Leadership to a team of more than 50 associates.

- Managing above mentioned product from technical point of view
- Designing, Code Reviewing, Refactoring & maintaining quality of code
- Design discussions with different stakeholders
- Achieved high throughput requirements by introducing SEDA model.
- Architected the product to achieve Resilience on different topologies.

PEROT SYSTEMS (FROM AUGUST'03 – OCT 08)

PROJECT - VOCA- BGC Payment Engine, RnR(Routing and Reformatting) & A-Services (July 2007 – till date)

Client: VOCA Ltd, UK **Client:** VOCALINK, UK. <<http://www.vocalink.com/>>

Environment: H/w: Intel Pentium 40 GB HDD, 2 GB RAM, SCSI Drivers for Servers and Any PC with 10 GB HDD, 256 MB RAM for clients **O/s:** NT or UNIX for Servers and Windows O/s or NT for Clients **S/w:** JSF, Spring 2.0.4, Hibernate 3.2, Java Persistence API **Tools:** Eclipse 3.2.

The project is for VOCA, largest Payment processor in UK. Both RnR & A-Services are part of Payment services, which VOCA provides to the banks and financial institutions across EU.

Both projects were SOA based solutions on open source ESBs (Mule/Fabric3/SCA), Spring, Hibernate and Oracle.

Role: Technical Architect

- Leading a team of more than 30 associates.
- Managing above mentioned projects from technical point of view
- Owner of Architecture and Design of both applications
- Code Reviews maintaining quality of code
- Periodic Client Interaction and design discussions

PROJECT - SOAR (From July '2006 – May 2007)

Client: PHH Mortgage, NJ and Dorado, CA

Environment: H/w: SUN **O/s:** Solaris, Windows **S/w:** Bea Weblogic 8.1, SOAP, SOA, Eclipse, StarTeam,

This is an integration project between SOAR application hosted by Dorado, CA and PHH Mortgage. The PHH Mortgage provides the backend services for Heloc loans and Dorado is originator of those loans. This was a SOA based project where PHH Mortgage exposed their Heloc related services using weblogic SOAP based webservices. Different webservices namely, Products service, pricing service, Underwriting service and Debt-To-Income services were exposed to Dorado as a part of this system. Loans originated at Dorado would also get registered with PHH using web service framework. Dorado is informed about the latest updated on the loan originated at their end through a poller who used to invoke webservice at Dorado end.

Role:

- Working as onsite Technical Architect, Participation in approach meetings, understanding the clients prospective and converting them to functional Specs and Design.
- Lead a team of 4 onsite and 8 offshore developers.
- Preparing High level design document
- Development and Review of Detailed Design document.

- Coding of framework components and setting the quality standards for the project.
- Code reviews
- Coordinating with Dorado and PHH for integration activities.
- Supporting QA and production activities – build configuration, deployment and support.
- Post production support.

PROJECT – Business Process Optimization Automation (From Jan '2005 – May 2006)

Client: A Leading Car Manufacturing Company, UK.

Environment: H/w: Intel/IBM O/s: Windows/Unix S/w: WBI Interchange Server, Websphere MQ, MQ WorkFlow, Portal Server, WBI Workflow Adapter, WBI JDBC Adapter, WBI SAP Adapter, XML Adapter, RAD(Rational Application Developer), Portlets

This is an EAI system that integrates a Database Application, SAP and workflow application to automate the business process. The company is leading manufacturer of Luxury cars, which they put on lease to different Private or Corporate customers. The user interface was on Webshpere Portal server through WorkList portlet and action portlets. The process flow was implemented in WBI ICS that Integrates to Oracle application, SAP, Webshere MQWorkflow, Email system and other services through WBI Adapters.

Role:

- I was the lead Designer in this project converting Business use case to High-level design and system specifications.
- I participated in system analysis and Requirement gathering for all the process to be implemented.
- Implemented POC. Was instrumental in designing the system that Integrates ICS, Workflow and Oracle database application.
- Designed ICS collaborations, ASBOs, BOs, Maps.
- Configured JDBC, Workflow adapters.
- Designed and developed Workflow related wrapper APIs.
- Designed Workflow FDL for the part of the process needs user discretions.

PROJECT – CDMS (From Feb '2003 – To Jan '2004)

Client: Australia Custom Services, Canberra, Australia

Environment: H/w: Intel/IBM O/s: Windows/AIX S/w: J2EE, Struts, DB2, WAS, XML, MQ Series **Tools:** Websphere Studio Application Developer, XML Spy, and MQ Series

This project was developed for Australia Custom Services for Examination of Cargos coming and going out of Australian Ports either through Air or Sea.

The system was prepared to help the custom officers in Targeting, Examining, Recording and Tracking the Cargos and the clients.

Role: I have done Business Analysis and Requirement gathering for two modules i.e. Mass Screening and Post. I had Visited Client sites in Sydney and Melbourne to collect the Information.

Designed and developed framework for application that includes development of center controller, extending struts tag libraries and other struts components.

I was also involved in System Integration with other CDMS Modules using MQ Series messaging.

PROJECT – Learning Management System (From Aug ‘2002 – To Jan ‘2003)

Client: Sun Microsystems, UK

Environment: H/w: Sun Box O/s: Windows/Solaris S/w: Sun One Application Server, J2EE, Struts, Oracle, XML, Castor Tools: TogetherJ, Application Developer

This project was developed for E-University UK. In this project we worked with Sun Microsystems to develop the solution. The project was developed for assisting Teachers, students involved in Distant Learning courses. Instructors can upload the training contents using the site. Students enrolled to that particular course can visit the site and browse/download the content.

Role: As a Module Leader, I was responsible for delivering Upload Content Module. The content file used to be a Zip file containing course materials. There would be one XML in the zip file that will tell how the content is organized in the zip file. Content was a combination of Books, Chapters, modules and other resources. We need to look at the XML file and arrange the uploaded zip file content so that it can be used by the students.

TECHSPAN INDIA LIMITED (FROM MARCH ‘2003 – TO AUGUST ‘2003)

PROJECT – CISRS (From March ‘2003 – To August ‘2003)

Client: Saber Consulting, USA

Environment: H/w: Intel O/s: Windows S/w: J2EE, Struts, Oracle Tools: J-developer, Oracle Designer, Together-J

This project is development of a Customer Information Services Reporting System (CISRS) for San Diego Welfare Partnership.

CISRS is the Workforce Partnership's custom-developed case management system. It is the cornerstone web-based application for participant data collection and reporting. There are two distinct modules within CISRS that support the funding sources, the Workforce Investment Act (WIA), and Welfare-to-Work (WtW).

Role: Architect. Design and Development of basic framework for application that includes development of central controller, tag libraries, extension of basic struts components (actions, form-beans, action servlet), session facades, and entity beans with CMR's.

INTERSOLUTIONS PVT. LIMITED (FROM MARCH ‘2001 – TO MARCH ‘2003)

PROJECT – Employ! (May ‘2002 – Feb ‘2003)

Client: Bank of America, USA

Environment: H/w: Intel O/s: Windows S/w: J2EE, XML, oracle Tools: WebSphere, IBM visual age for Java

J2EE application developed on the top of XCT framework. Employ is a Human Resource information system used to manage the requisition creation and hiring functions of any organization. This process is made up of following sub-processes, Requisition creation, and approval of requisition, Matching and filtering process, scheduling interviews, evaluation, and finally hiring. It uses the configurator as well as XML database to maintain the pages and the data respectively

Role: Sr. Engineer, Leading a team of 3 engineers. Understanding the client requirements, Designing and developing. He was responsible for development of client interface using XML, Visual Basic and java servlets.

PROJECT – XCT Platform for Web Application Development! (March '2001 – April '2002)

Client: Lotus Management LLC, New Jersey, USA

Environment: H/w: Intel O/s: Windows S/w: J2EE, XML, oracle **Tools:** WebSphere, IBM visual age for Java

XCT™ is a framework supported by **in-memory XML database** and **PageConfigurator** for creating complicated web application in a very short span of time without writing much code. One of the best parts of this tool is that sites made up of using this platform are easy to configure and customise as per the client's requirements.

It is very helpful to the companies that provide web services to there customers. It allows service-providing company to configure and customise workflow, look & feel, and database for their different customers.

It uses the power of XML and Schema combined with java-servlets to deliver complicated solutions. Site Maker allows running site to customize and configure to suit requirements posted by new clients using **Configurator**, which is also an integrated part of the platform. The most benefited by this tool are companies who sell its services to clients. Briefly, it separates design and data with the help of XML, schemas, HTML Templates. It uses Site Map XML that is written in a specific language understood by Site Maker that in turn plays a site, end-to-end.

MINDSHAPER TECHNOLOGIES (P) LTD. (FROM MARCH '2000 – TO MARCH '2001)

PROJECT – Etesting Engine and QAML (Oct '2000 – March '2001)

Client: MindShaper Technologies, Delhi, INDIA

Environment: H/w: Intel O/s: Linux S/w: Java, XML, XSL, MySQL **Tools:** Visual Café

Etesting engine was designed for faster and easier development of Online Questionnaires. Java and XML/XSL were the main technologies used for developing this engine. It was defined as a State Machine with states starting from creation of questionnaires to detailed feedback to end-user. Question database as well as the checking & displaying logic was kept in XMLs. Java and XSL were used for querying and processing questionnaires.

Role: I was one of the starting members of this company. I worked as a Technical Manager in this project, leading a team of 8 members. Role was to conceptualise and design the entire system.

PROJECT - School Information System (March '2000 - Oct '2000)

Client: ClassTeacher.com, Delhi, INDIA

Environment: H/w: Intel O/s: Windows S/w: J2EE, XML, oracle **Tools:** WebSphere, IBM visual age for Java

SIS is essentially a software package to put up a school over the Internet. In this product whatever that happens in the school is available at Internet. All school related data like teacher's info, student info, time-table, attendance, fee, reports, infrastructure etc. and study related data like Lessons, Notices, Homework, Report Cards, etc. are some of the features of this School Information System.

Role: Worked as a project manager in this project, leading a team of 10 members. Role was to conceptualise and design the entire system.

MINDSEYE INFORMATION SYSTEMS (P) LTD. (FROM JUNE '1998 - TO MARCH '2000)

PROJECT - Service Management System for ISPs (May '1999 - March '2000)

Client: Aplion Networks INC, New Jersey, USA

Environment: H/w: Intel O/s: Windows S/w: Java, Servlets, Swing, RMI, JNI, Vx-Works, XML **Tools:** Visual Café, Tornado

This system is designed for Internet service providers for packaging and managing their services. This was a small size router targeted to small and medium size companies, wants their ISP to install, configure and maintain the whole lot of services like DHCP, Firewall, QOS, and VPN etc.

The hardware part of this box was made by APLION (sister concern). This was exiting hardware and software combination divided into three frameworks. Each framework runs on different environment starting from real-time OS VxWorks to Web Server and finally client's browser.

This Product was on of its kind, got special recognition from FORBES.

Role: Worked as a Team member in this project. He has developed Swing Applets, RMI components and JNI wrappers in this project. He was mainly responsible for DHCP module.

PROJECT - Highway Design and Engineering System (Jan '1999 - May '1999)

Client: TechSoft Inc, New Jersey, USA

Environment: H/w: Intel O/s: Windows S/w: Visual Basic, Access **Tools:** VB 5.0, MS-ACCESS

This was the engineering system developed for TechSoft Inc. This system is used for making designs of Highways and Railway tracks. All the complicated algorithms were written in C and UI was in VB.

Role: Worked as a Team member in this project, responsible for doing all kind of design and coding.

PROJECT - Internet Fax Server (June'1998 - Dec '1998)

Client: Customs, Delhi, India

Environment: H/w: Intel O/s: Windows S/w: C/C++, Access, WIN 32 **Tools:** Dialogic Card/ APIs

System is designed for sending faxes from one place to another using dial-up internet connection, hence reducing the cost of faxing drastically. Faxes directed for a destination are received through **Dialogic** card on normal PSTN lines attached to the card. The Fax then transferred to the closest server through Internet using dial-up connection. The destination server on receiving the document faxes it out using normal PSTN lines, hence cutting the cost.

Role: Worked as a Team member in this project, responsible for doing all kind of design and coding in C/C++ using win32 SDK. Used multithreading, thread synchronization using Mutexes, wrote Win32 system services, schedulers, processes etc. Integration of different process using system pipes.

PROFESSIONAL TRAINING AND CONTINUING EDUCATION

- *Participated in 2 weeks training program with IBM(US) and India for WBI suite in Bangalore and Delhi*
- *Six months training in National Informatics Center (NIC), New Delhi. Developed web enabled Employment Exchange during this training.*

AWARDS, PUBLICATIONS AND PROFESSIONAL AFFILIATIONS

- *Awarded Gold Medal by Gurukula University for topping the batch in MCA.*
- *Service Management System for ISPs got special recognition from FORBES magazine.*
- *Sun Certified Enterprise Architect (Part-1), TOGAF 9 (part-1)*
- *Infosys certified J2EE Architect, Infosys certified Web services Architect, Infosys certified Cloud Architect*
- *Infosys certified Agile practitioner*

SKILL SUMMARY

Hardware Environment

PC- Intel Pentium series, IBM p-Series, Sun Machines

Operating Systems

MS-DOS, Linux, AIX UNIX, Windows 95/NT/2000, Solaris, Vx-Works

Programming Languages

Java, XML, XSL, Visual Basic, VC/VC++, JavaScript

RDBMS/DBMS

ORACLE, DB2, SQL Server, MySQL

Cloud technologies

Microservices, Springboot, NoSql, MongoDB, REST, WSDL, Docker, Kubernetes, SAAS, PAAS, IAAS, Bluemix, AWS, GoogleCloud, API Gateway/Economy, ELK, Zabix, Kafka, CICS, AngularJS

Design Tools

Oracle Designer, TogetherJ, Visio, Enterprise Architect and Rational Rose

Application Servers

Weblogic, Webshpere, Oracle App Server, Sun One App server, JBoss, Tomcat

Web Technologies

J2EE, SOA, ESB, SCA, EJBs (Entity and Session Beans), JDBC, RMI, JNI, Multithreading, Swing, Servlets, STRUTS, JQuery, AngularJS, Bootstrap, JSP, JSF, AJAX, JavaScript, HTML, MVC, DAOs, spring, Hibernate, JPA, EJB3, Maven, Sub-Version

EAI Technologies

ESB-Mule, SCA(Service Component Architecture), Websphere Business Integration Interchange Server(WBIICS), SOA, Webservices, WBI SAP adapter, WBI WorkFlow adapter, WBI JDBC Adapter, Portlets, Worklist and Action Portlets, Websphere MQ Work flow, Webshpere MQ, MQ-Series, Connector Architecture

PERSONAL

- Born on 7th March 1975
- Resident of 19 Elite Embassy, Ram Nagar Colony, Bavdhan, Pune
- Married
- Contact No. +91- 9096038819
- Passport No : H0300438