**DEEPAK BAWA (Application Developer/Designer/Integration Engineer/Technical Lead)**

**EXPERIENCE SUMMARY**

• More than 17 years of experience in system analyses, architecture and development of business critical and high availability primarily Java/J2EE applications.

• More than 5 years of experience in system analyses, architecture and development of OSS/BSS applications for Telco/Defence projects.

• Worked in the roles of Developer, Technical lead, Application Architect, Team leader, Solutions Designer and Application Architect.

• Extensive experience in Requirements Gathering and System Analysis, Software Development, Maintenance and Effort Estimation.

• Working through all the phases of SDLC analysis, design, coding, implementation, testing, maintenance and support.

• Experience working on successful business critical projects end-to-end from initial inception phase to completion and maintenance.

• Experience working with non-technical staff to understand their requirements and business. Perform the complete System Analysis and prepare Application Architecture based on that.

• Able to construct and deliver appropriate verbal and written communication messages to stakeholders in business and technology.

• Extensive experience documenting solutions for both technical and non-technical staff.

• Domain knowledge of customer service centre, financial applications for veterans, public transport and disabilities department & stock exchange and telecommunication corporate online billing systems.

• Professional software development with strict quality standards and processes such as Zero Defects and Timely Delivery of work products as per SEI-CMM Level 5 & ISO 9001 Quality Standards.

• Skills in Java, J2EE, Web applications, XML, Web Services, SOA Systems, WebSphere, DB2, SQL Server, RAD, Eclipse, Rational products, Struts, Hibernate, Spring.

• Experienced implementing Design Patterns and Object Oriented Analysis and Design using UML and Rational tools.

• Experience working on varied development methodologies RUP, Agile/Scrum and Waterfall methodology.

• Completely aware of the work ethics and code of conduct, security concerns of the clients and the importance of timely and effective communication.

• Enjoy working in core technical architecture and application design teams who are technically focused & enthusiastic professionals.

• Worked in multi-cultural and heterogeneous environments with big corporate and government clients from Australia and Japan.

**TECHNICAL SKILLS**

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| **Programming Languages** | Java |
| **Java and Internet** | JSP, Servlets, JSF, RichFaces, JavaScript, EJB, RAD, WSAD, RMI, XML, WSDL, SOAP, Web Services, Rest Axis, HTML, Swing, IBM WebSphere, BEA Weblogic, Eclipse, Struts, Hibernate, Spring, Mule, JUnit, ANT |
| **IDE/Tools** | Spring Source, RAD, WSAD, Eclipse, JBuilder, Lotus Notes, Toad, Crystal Enterprise, Business Objects XI, Rational Rose, Rational XDE, Clear Quest |
| **RDBMS** | IBM DB2, MSSQL, Oracle |
| **Application server** | IBM WebSphere, Tomcat. |
| **IBM and HP Products** | IBM BPM SCO, IBM BPM ICO, IBM WebSphere Portal, IBM Netcool Configuration Manager, IBM Datastage, DWH, IBM Netcool Manager, HP UCMDB |
| **Design Tools** | Enterprise Architect, Visio, Rational Rose |
| **Framework** | Spring1.2/2.5/3.0, Hibernate3 |
| **Source Control** | PVCS, CVS, SVN, ClearCase |
| **Operating System** | Windows, Linux |

**PROJECTS**

* **Project – ACIC Projects (From Aug 2017 – Till Date)**

**Organization**: ACIC, Canberra, Australia.

**Environment**: Java JDK/JRE8, XML, J2EE6, Tomcat, JUnit, Mockito, WebServices, IBM WebSphere Broker, IBM MQ, AGILE, REST, Spring MVC, Spring REST, Spring Boot, Spring JPA Hibernate, Docker, JIRA, Jenkins, Git, Kafka, Nifi, Hadoop, Hbase, Flink, Zeppelin, Cloudera, Neo4j, ElasticSearch, Kibana, Oracle DB.

**Team Size:** Team size varies between 5 and 8.

**Role**: Senior Software Engineer

**Description**: Development of projects that involved experimenting and developing Big Data solutions with software such as Hadoop, Cloudera, Neo4j, Hbase, ElasticSearch. Worked on the data migration analysis and development to provide MDM capability for organization. Built the Online reporting application from grounds-up completely refactoring/redeveloping the existing application with technology upgrade and major enhancements. This is a Greenfield project completely replacing the existing application based on old technologies.

**Responsibilities:**

* Big Data systems projects development following AGILE principles.
* Lead the refactoring development for Online reporting project.
* Handle National Police Check Web service on-boarding, enhancement and support.

**Highlights/Achievements**:

* Refactored Online reporting application to latest technologies.
* Independently handled all National Police Check Web service related work communicating with external agencies and various internal teams.
* Self-learning IBM Websphere Broker, IBM MQ, Hadoop, Kafka and other related systems without any formal training and completed Broker certification.
* **Project – BAV (From Jul 2016 – Till Date)**

**Organization**: SoS, Canberra, Australia.

**Environment**: Java JDK/JRE8, Google Cloud, Go, XML, J2EE6, Tomcat, JUnit, Mockito, WebServices, REST, Spring MVC, Spring REST, Spring Boot, Spring JPA Hibernate, Keycloak, Docker, JIRA, Jenkins.

**Team Size:** Team size varies between 5 and 8.

**Role**: Lead Developer/Technical Lead

**Description**: Senior Developer and Technical Lead with team members in Sydney and Melbourne. This project is for managing organization’s Books, Audio and Video sales, stocks and orders. Its Micro services based architecture with four independent services UI, Backend, REST based Business Services and IDM. Application is hosted on Google Cloud Platform.

**Responsibilities:**

* Lead the team technically, design application architecture, and evaluate products/frameworks.
* Perform development of business functionality including critical components.
* Work with the Business to evaluate their requirements and prioritize work with project manager.

**Highlights/Achievements**:

* Delivered the projects to the agreed timelines and within the budget.
* Satisfactory product delivery according to business requirements.
* **Project – DTCN (From Sep 2013 – Aug 2017)**

**Organization**: Nokia Solutions, Canberra, Australia.

**Environment**: WindowsXP, Linux, Java JDK/JRE6/8, XML, J2EE6, IBM WebSphere BPM 8.5, Lombardi, Eclipse, Perl, JUnit, Mockito, WebServices, SOAP, REST, WSDL, Apache POI, Broadsoft Broadworks, ITNCM, DWH, Data WareHouse, IBM Datastage.

**Team Size:** Total immediate team size for this project is about 10.

**Role**: Software Integration Professional OSS

**Description**: The work is part of the JP2047 initiative by the Defence department.

**Responsibilities:**

* Perform development and provide expert advice on SCO BPM, ICO BPM, Netcool Configuration Manager and UCMDB products.
* SME for WebSphere BPM Standard v8.5 and HP UCMDB v10.11.
* Lead development of TACINT functionality. Performed the entire development of critical component TACINT that provides the OSS/BSS functionality for the TACINT devices. TACINT web app is used by call center to manage devices configuration through Web GUI developed in IBM BPM by calling Netcool Configuration Manager command sets.
* Perform design/development of various Network Integration components including Unified Comms, TACINT Integration, Vasco, Aruba CPPM.
* Perform development of all Java integration projects.
* Implemented integration between Netcool Manager and HP UCMDB.
* Implemented integration between IBM BPM, Netcool Configuration Manager and UCMDB.
* Implemented integration between HP SM9 and UCMDB.
* Implemented integration between IBM BPM and various products including Aruba CPPM, IBM Netcool Configuration Manager, UCMDB, SM9 and VASCO.
* Implemented device configuration export functionality from Netcool Configuration Manager and IBM Datastage.
* Implemented compliance policies in Netcool Configuration Manager Compliance application.
* Prepared COTS guide for IBM BPM ICO 2.4 & HP UCMDB and performed installation in various environments DEV, TEST and PROD. Also, performed and documented security hardening and clustering components.
* Contributed to the IBM Netcool Configuration Manager COTS and Build guides for various installations and environments.
* Provide technical documentation for various components.
* Support the test team during Demonstration of functionality to Telstra and Defence stakeholders.

**Highlights/Achievements**:

* Independently designed and developed the BPM TACINT development.
* Independently designed and developed the Network Integration components with Netcool, CPPM and Broadworks.
* Independently worked with Broadsoft, VASCO and CPPM team in Melbourne related for integration of COTS products.
* Able to learn various products such as BPM, ITNCM, UCMDB, Datastage and NCM without any formal training.
* Communicated with various departmental sections and teams for work related to the project.
* **Project – Aged Care Portal (From Nov 2012 – Sep 2013)**

**Organization**: DoHA, Canberra, Australia.

**Environment**: WindowsXP, Java JDK/JRE5, XML, J2EE6, JSP, JSF, PrimeFaces, RAD, JPA/EJB3, Spring, JUnit, Mockito, WebServices, SOAP, WSDL, Oracle, Toad, WebSphere Server 8, WebSphere Portal 7, WebSphere Business Process 8, WebSphere Integration Designer, WebSphere MQ, Agile SCRUM.

**Team Size:** Total team size for this project is about 20.

**Role**: Technical Lead/Senior Java Consultant

**Description**: Aged Care Portal is built on WebSphere Portal Server 7 to provide services to providers and aged care department.

**Responsibilities:**

* Lead development of Provider Summary functionality.
* Perform design/development of Transition Cost Funding functionality.
* Perform design/development of Grants functionality.

**Highlights/Achievements**:

* Delivered the projects to the agreed timelines and within the budget.
* Independently designed and documented the application architecture for Provider Summary.
* Communicated with various departmental sections and teams for work related to the project.
* Designed and developed the IBM WebSphere based security management project.
* Created composite JSF components to be used across projects. In turn standardizing the UI development and in the long run bring in better common code functionality management.
* Introduced Technical documentation standards and brought in the culture of documenting things within the entire project by providing standard templates and providing extensive documentation of Provider Summary functionality.
* Introduced Continuous Integration and better code coverage practices.
* **Project – DVA Transformation Projects (From Jun 2010 – Oct 2012)**

**Organization**: DVA, Canberra, Australia.

**Environment**: WindowsXP, Java JDK/JRE6, XML, J2EE1.6, JSP, JSF, WebServices, SOAP, WSDL, Generics, Annotations, IBM DB2, WebSphere Server, Jython, TIBCO BusinessWorks, Tomcat, Glassfish, RSA7, JUnit, EasyMock, Selenium, JBehave, BDD, Agile, Scrum, Hibernate, Spring, Spring JDBC, Spring MVC, Spring WebFlow, Spring Web Services, Spring AOP, Spring Security, Mule, JSF, RichFaces, WS-Security, WS-Addressing, Maven2, Vanguard, Auskey, SAML 2.0, SSO, Right FAX, JProfiler, JQuery, Oxygen, Ajax, SOAP/WSDL, Rest Web Services, Google Maps, Solr/Lucene, XWiki, MySQL, Cobertura, Splunk, Netscalar, SeleniumHQ, Nexus, Hudson, Jenkins.

**Team Size:** Total team size for this project is approx 50.

**Role**: Technical Solutions Lead/Lead Developer

**Description**: DVA has initiated a priority program to enable online capability for Department of Veterans’ Affairs.

**Responsibilities:**

* Independently review/assess the requirements and design/develop application architecture for all the projects.
* Lead the development process from Technical perspective working closely with the Architects.
* Technical Lead for development team of 6 to 14 developers.
* Work with Development Manager to manage development team tasks, coordinate schedule, prioritize work and motivate team members.
* Define and develop end-to-end focused solutions and delivery approaches on a consistent basis to address business requirements.
* Accountable for solution's output in terms of quality, timeliness and compliance with requirements as defined in the Scope of Requirements.
* Provide technical guidance, mentoring to the development team staff about the application structure/architecture.
* Perform development of major crucial components of applications especially integration.
* Perform the development of the core application frameworks.
* Build the application architecture repository and distribute common frameworks for application development using Maven.
* Participate in Environment setup and hardware related issues.
* Estimate the work effort for the projects.

**Highlights/Achievements**:

* Delivered all the projects to the agreed timelines and within the budget.
* Independently studied the requirements and designed the architecture for all the projects.
* Communicated with other departments and various teams within the project.
* Worked through the entire SDLC right from inception to requirements analysis to production verification, development, testing and deployment.
* Interviewed and hire the development team members to build the entire development team.
* Architected/Developed enterprise application integration and batch job framework.
* Built the entire system framework from scratch based on the Spring framework
* Created common frameworks, which are used as guidelines and standards across other Java projects development within the Department.
* Independently developed the complex modules of the project such as Eligibility Rules, Allocation Percentages, Dispatch to Right Fax and MTData.
* Worked on SSO security framework development using Vanguard Medicare and Auskey certificates & SAML and SPNEGO/Kerberos.
* Independently designed and developed the custom workflow framework for the application.
* Developed various web services for the system such as IQRapid, Trim Upload/Download, MTData bookings and Right Fax.
* Working on achieving WCAG compliance for the external facing projects.
* Developed the search engine based on Solr/Lucene.
* Independently setup the Maven Nexus environment and setup continuous integration using Hudson.
* Performed application tuning and performance improvement.
* **Other Projects**

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| **Organisation** | **Role** | **Technical Environment/Software** | **Duration** |
| Medicare, Canberra | Analyst/Programmer | WindowsXP, Java JDK/JRE 1.4.1, XML, J2EE1.4, JSP, WebServices, SOAP, WSDL, EJB, Oracle 10g, Tomcat, WebSphere, JUnit, Toad, XML, SCRUM | Mar 2010 – Jun 2010 |
| Department of Immigration and Citizenship, Canberra | Analyst/Programmer | WindowsXP, Java JDK/JRE 1.4.1, XML, J2EE1.4, JSP, WebServices, SOAP, WSDL, EJB, Oracle 10g, Tomcat, WebSphere, JUnit, Toad, XML, SCRUM | Jan 2009 – Mar 2010 |
| Shared Information Solutions, Brisbane | Analyst/Programmer | WindowsXP, Java JDK/JRE 1.4.1, XML, J2EE1.4, JSP, WebServices, SOAP, WSDL, EJB, Oracle 10g, Tomcat, WebSphere, JUnit, Toad, XML, SCRUM | Jun 2008 – Jan 2009 |
| Australian Administration Services, Parramatta, Sydney | Application Designer/Developer | WindowsXP, Java JDK/JRE 1.4.1, XML, J2EE, Oracle 10g, JBoss server, Spring, Hibernate, JUnit, Toad, XML (SAX, DOM, Stax), JMS, JAXP | Nov 2007 – Apr 2008 |
| Telstra, Accenture Australia Ltd, Melbourne | Application Designer/Developer | WindowsXP, Java JDK/JRE 1.4.1, Siebel CBM/CBA, J2EE, EJB, WebService, JSP, Oracle 9i, Websphere6.0, RAD6.0, Struts, Spring, Hibernate, JUnit, EasyMock, SQL Developer, DBVisualiser, Corbetura, Quickbuild and Cruise Control | Sep 2006 – Oct 2007 |
| DOI, Public Transport Division (PTD) of Victoria, Melbourne | Software Development / Back-up Team Leader | Windows2000, Java JDK/JRE 1.4.1, J2EE, EJB, WebService, JSP, Java Mail, MSSQL Server2000, Websphere6.0, RAD6.0, Crystal Report 8.0/Seagate Info7.5, Lotus Notes Domino Server R5, Crystal Enterprise 9/10, Business Object XI, SwiftMQ, Struts, Hibernate, JUnit | Feb 2002 – Aug 2006 |
| Tokyo Stock Exchange, Japan | Software Development | Java JRE/JDK 1.3.1, Weblogic Application Server 5.1, Java Script, JDBC, EJB, JSP/Servlets, IBM MQ Series, Kawa IDE | Feb 2001 – Nov 2001 |

# EDUCATION

* Degree – Bachelor in Electronics from Delhi University, First division.
* One year software development training from NIIT Ltd. Covering Sybase, C++, VB, Java.
* Five months Y2K training on IBM S390 and Microfocus workbench covering COBOL, Visual Cobol, JCL, Rexx, CICS, DB2.

# PROFESSIONAL IT CERTIFICATIONS

* IBM Websphere Broker 8 certification
* Pega CSA certification
* The Open Group – TOGAF Level 1 - TOGAF 9 Foundation Certified.
* Sun Java Certification – SCPJ – Sun Certified Programmer for Java 2 platform.
* Sun Certified Web Component Developer – SCWCD – for J2EE1.4
* Oracle Certified Professional – OCP – Introduction to SQL and PL/SQL.

**PERSONAL DETAILS**

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Security Clearance: NV2, NV1, Protected (Baseline)

**(Deepak Bawa)**