# Pankaj Kumar

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## **Personal Summary**

* Passionate technologist and architect with over 20 years of experience in software development

with strong technical architecture expertise and exposure to SOA, Decision Modeling, BPM and workflow solutions

* Possess knowledge of current and emerging technologies to identify innovative technical solutions for business needs.
* Having knowledge and implementation experience of various enterprise integration patterns and their best practices.
* Strong business and technical skills that enable me to skillfully translate business requirements to software solutions.
* Fast learner and excellent mentor – very good at team development and increasing organizational effectiveness.
* Conversant with architecture frameworks like Zachman and TOGAF(Certified).

## **Technical Skills**

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| **Programming** | Java, J2EE, EJB 3.x, Servlets, Web Services, Struts, JSP/JSF, JDBC, XML, XSLT, XSD, XPATH, Swing, Log4j, Ant, AJAX, GWT, JQuery, JUnit, JMS, Python, Ruby on Rails, PHP, C, C++, C#,.VB.Net, Android |
| **Other APIs/ Frameworks** | Hibernate, Spring (MVC, AOP, WebFlow et. al.), Struts, Tiles, JMS, MQ, Cobertura, ANT, JMock, Mockito, JSF, TIBCO In-Concert, Business Works 5, Introscope, SOA, Mule ESB, SOAP and RESTful Web Services (JAX-RS) |
| **Methodologies** | SDLC, Waterfall, AGILE, Scrum, TDD. |
| **RDBMS/Database Related** | Oracle 9i/10g/11, PL/SQL, DB2, SQL Express 2005, SQL, MySQL, Sybase, HQL, Couchbase, MongoDB, Hadoop, HBase, Hive. |
| **Web/Application Servers** | WebSphere Application Server, Tomcat , Jetty, WebLogic, JBoss AS, IIS, Apache Httpd. |
| **Development and Build Tools** | WebLogic 11.x, IBM RAD 7.1, JDeveloper, Eclipse, NetBeans, TIBCO, Dreamweaver, Oracle Apps , Lotus Notes, Ant, Maven, Gradle,Ivy, Hudson, Anthill. |
| **Design/Architect** | UML, Design Patterns, Use cases, RUP, Enterprise Architecture |
| **Security** | SAML, OAuth |
| **Version Control** | SVN, Git, CVS, PVCS, Rational Clearcase |
| **Web Technologies** | HTML5, DHTML, XML, XSLT, XPATH, Java Script, CSS3, JQuery Mobile, Angular JS, Backbone, Bootstrap. |
| **Emerging Technologies** | Cloud architecture, NOSQL, Hadoop, In-Memory Databases. |

## **Professional Experience**

### **Wells Fargo Minneapolis, MN**

**Architect/Designer (TOGAF Certified) Oct 2013 – Current**

**My Role:**

* Provide the Solution Architecture which is a supportive architectural document that elaborates in more detail the proposed solution(s).
  + Created System Architecture Document and Functional Specification Document created include artifacts like , FSD, data models, Conceptual diagrams and other artifacts.
* Technology Roadmap and architecture vision, scope and prioritize.
* Setup architect governance process for storing architect artifacts in the architecture repository.
* Involved in setting up software Sparx Enterprise Architect (EA) with TOGAF Ad-In as a shared architect repository.
* Evaluated technical feasibility through proof of concept.
* Defined application key performance indicators(KPIs) and load test strategies
* Established solution frame-work considering layered architecture and right design patterns focusing on key architectural objectives of open-closed, decoupled, reusable and extendable solution.
* Configured tomcat (concurrent threads, stackSize for each thread, HeapSize, permSize, # of JVMs on each server, JVM tuning,
* Proof of concept for testing with different server configurations.
* Proof of concept for testing the performance/storage requirements of Lucene based search solution.
* Involved with DBA in database tuning (query tuning, table partitioning, buffers)

**Technical Environment: Sparx Enterprise Architect, Visio, MS Project,** CAIntroscope 8.x**,** Sapiens Drools based rule engine, MQ, Java, Spring, AJAX, SOAP and REST, MVC, HTML5, CSS3, Spring Security, JQuery, Oracle.

### **Prime Therapeutics Eagan, MN**

**Application Consultant Nov 2012 – Oct 2013**

Responsible for re-architecting/designing solution of an existing application so as to provide better scalable architecture that meeting functional and non-functional requirements.

* Created Architecture Design Document (ADD) and Functional Design Documents (FSD)
* Developed Proof of Concepts to verify new architecture.
* New open architecture that can be extended and integrated with other applications.
* Provided architecture artifacts and related documents.
* Created measureable performance objectives that follows S-M-A-R-T criteria.
* Proposed Event Driven Architecture an alternate to batch process.

**Technical Environment:** MS Visio, Java, J2EE, Spring IOC, JMS, MQ Series, Restful Web Services, DB2, Ant, Maven, Jira, Axis-1.x, 2.x, Confluence, Crucible 3.0, Fisheye, IBM RAD 8.0.4, WAS 7.5

### **Cigna Minneapolis, MN**

**Team Lead/Architect Jun 2012 – Nov 2012**

* Lead a team of 6 developers in architecting and developing a solution for implementing ‘Auto Assignment’ functionality in the CODE Runner in both Desktop and Batch Module.
* Collaborated with enterprise architecture , business, development leads, and other stake holders to articulate solution architecture, scope, priorities and time lines.
* Created architecture vision, technology roadmap, stakeholders map matrix.
* Part of enterprise integration team responsible for providing best system integration solutions.

**Technical Environment:** Visio, Java, J2EE, JSP, JUnit, Mockito, Eclemma, iBatis 3.1, Spring IOC, AOP, MQ JMS, EhCache, Oracle 11g, Drools, jBPM, JSTL, Flex , MVP, Maven.

### **Carlson Wagonlit Technologies Minneapolis, MN**

**Java Architect Feb 2012 – Jun 2012**

Re-architecting existing legacy application (AQUA) from DOS, C, .Net to Java, Drools, JBPM, JMS.

* Asynchronous Messaging Architecture to integrate dependent applications without losing any request.
* Created Solution Design Document with required artifacts covering functional and non functional requirements, components, Interfaces, external dependencies, risk factors etc.
* Created conceptual diagram, component diagrams, technical specifications document (detail design)
* POC feasibility of open source Drools rule engine to capture Identify potential bottlenecks
* Main emphasis is on performance and vertical and horizontal scalability.
* Making sure PCI Compliant along with Enterprise policy
* Helped in setting up of environments(dev, qa, sit, prod), that includes Weblogic Server, Oracle database, Hudson for Continuous Integration, SVN for version control, and Nexus for maven repositories.
* Working with project manager in release planning and prioritizing stories.
* Coordinating between business, team leads, DBA QA, IT Ops and other teams,

**Technical Environment:** Visio, Java, J2EE, Eclemma, Hibernate 3.1, Spring IOC, AOP, JMS, distributed EhCache, Oracle 11g, Drools, jBPM.

### **McKesson Technology Solutions Minneapolis, MN**

**Software Architect Sep 2011 – Feb 2012**

Architected integration of two applications; ‘Horizon Quality Monitor (HQM)’ and ‘Horizon Enterprise Visibility(HEV)’.

* Gathering and identify the requirements and propose the solution.
* Created Architecture Definition Document (ADD), Functional Specification Document (FSD).
* Involved with design/implementation of the solution using technologies XML, Hibernate, JMS, Spring.

**Technical Environment:** MS Visio, Java, J2EE, JSP, JUnit, Eclemma, Hibernate 3.1, Spring IOC, AOP, MQ JMS, Oracle 11g, Oracle AQ, Spring tags, GWT, MVP, Maven, Groovy, Rally.

### **Royal Bank of Canada Minneapolis, MN**

**Application Architect Apr 2011 – Sep 2011**

Designed and architecture new project; documenting the technical details including UML and use cases. Setup a process and guidelines for development team.

Annuity and Insurance (AANDI): PowerBuilder internal application a rule-based record keeping system for tracking the processing, transfer and commission regulations of Annuity transaction.

* + Created Architecture Design Document with major software components and their integration.
  + Designed n-layer integrating with mainframe, JMS, two databases and external clients.
  + Identified right technologies from the existing available choices and enterprise polices
* Test strategies, functionality and performance testing parameters.

**Technical Skills:** MS Visio, Java, J2EE, Hibernate 3.1, Spring IOC, AOP, MQ JMS, DB2, MSSQL, WAS 7.0, RSA, SOAP and RESTful Web Services, Axis-2 , AJAX, JQuery , Eclipse 3.6, CVS, SVN.

### **Wells Fargo WMG Minneapolis, MN**

**Sr. Application Consultant Oct 2009 – Apr 2011**

Enterprise Bus Services (ESB), a service-oriented integration platform. It is an interface to client applications, insulating the impact of technical and enterprise changes.

* Led the design and development of web services using Test-Driven Development following Agile approach with two weeks iteration.
* Participated in story jams, business requirements and design discussions.
* Involved in designing role based authorization for web services.
* Performed regular code peer review and business review.

**Technical Skills:** Agile, Scrum, Java, J2EE, EJB 3, JUNIT, Hibernate 3.1, Spring IOC, AOP, MVC, Oracle 10g, WebLogic 9.2, Tangosol/Oracle Coherence, SOAP WebServices, Axis-2, Ivy, Crucible, CVS, SVN.

### **Comcast, Mt. Laurel, NJ**

**Sr. Application Consultant Jul 2009 – Oct 2009**

**Workbench Application**

This is J2EE application, which assists the Comcast agents to create a lead for a given opportunity and then complete the work process to convert the opportunity to a business contract.

**Responsibilities:**

* Architecture and designing of the application using Spring-DWR, Struts, AJAX, SOAP web services.
* Design of Cellback Haul task for sales person to convert opportunity to tasks. Accept Service Order to final contract. (24 tasks).
* Involved in both front end (Spring-DWR, Velocity Templates, Trimpath) and backend.

**Technical Skills:** Weblogic 10.0, Eclipse, CVS, Java, J2EE, JSP, JUNIT, Anthill, Hibernate 3.1, Spring IOC, Spring DWR, AJAX, Swing, applet, JavaScript, Taglibs, Portlets, Oracle 10g, Aqualogic BPM.

### **US Bank, MN Saint Paul, MN**

**Team Lead Sep 2005 – Jun 2009**

**Multi Service Aviation WEBPOS (MSA-WEBPOS):**.

* Collaborating with Business analyst and stakeholders.
* Migrating whole project and team from WebSphere Application Server(WAS) 5.1 to and WebSphere Application Server(WAS) 6.1 and GUI from RAD 6.0 to RAD 7.1 and from Java 1.4 to Java 1.5
* Performance and profiling, using JProbe.

**VOYAGER Fleet Systems:**

* Architect/Design of Gas Station locator module, where Voyager Card is accepted, showing latest gas price. Used Microsoft MapPoint Web services (SOAP) to display location on the map.
* Mass card creation, where client can request more than one credit card (up to 99) for his fleet.

**Access Online (AXOL):**

* Worked in TIBCO BW5 and Java to creating Web Services (REST) so that end user can submit new card creation/maintenance through their own website using our Web Service.

**Skills Used:** Rational Rose, J2EE, EJB, Spring MVC, Hibernate 3.0, Oracle 9i, DB2, MS-SQL, DB2, TIBCO In Concert 6.2.1, BW 5.4, WS-BPEL, JMS/EMS, Web Services, XML, XSD, Sun Solaris Unix.

### **3M, MN Saint Paul, MN**

### **Architect/Team Lead Feb 2001 – Sep 2005**

**Involved in multiple projects: (i.) Multimedia Conferencing Service (ii.) Cellular Service (iii.) Client Access Viewing System (iv.) EID Repository API**

* Gathering user requirements, drafting business use-cases based on the requirements.
* Created System Architectural Document(SAD) and Functional Specification Document(FSD).
* Class diagrams, object-level use cases, communication/sequence.
* Design used web services for subscription process and data cleanup on vendor end.
* Coordinated with Global Crossing Team in development, testing to production deployment
* Involved in all phases till deployment/maintenance on the production.

**Technical Skills:** Java 1.3, J2EE, Struts 1.1, Web Services (SOAP), JSP, Servlets, Struts-Taglibs, Rational Rose, IBM Portlets, JSR 168, WSAD, Oracle 8, DB2, 3M Persistence framework, Unix.

### **3M, Saint Paul, MN, Consultant Feb 1999 – Jan 2001**

### **Southwestern Bell, St. Louis MO, Consultant Aug 1998 - Feb 1999**

### **Security Link, Ameritech, IL, Consultant Mar 1998 - Aug 1998**

### **Punjabi University, India. Lecturer Oct 1992 - Jan 1998**

### **Himachal Pradesh University, Simla, Lecturer Jan 1991 - Sep 1992**

**Thapar University (TIET) , Patiala, India, Programmer/Systems Analyst Oct 1989 - Dec 1990**

### **Christian Medical College & Hospital, India, Programmer Jan 1989 - Sep 1989**

## **Education**

* Master of Computer Application: Thapar Institute of Engineering & Technology (1989), Patiala, India.
* Bachelor of Sciences: Punjab University, Chandigarh, India
* Project Management Professional (PMP, # 306617), 2005.
* The Open Group Architecture Framework(TOGAF v9.1, # 93795)