# Pankaj Kumar

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## **Summary**

A thought leader and a passionate technologist having 20 years of software developing, architecting, solution designing, implementation, translating legacy applications or greenfield applications to Cloud. I have a wide breadth of knowledge of both current and emerging technologies allowing me to identify innovative technical solutions for customer needs. My strengths are diversity and depth of experience, perseverance, ability to adapt to new technologies quickly, and organizational skills.

* 20+ years of extensive development/architect/lead experience with Java, J2EE, and hands on experience using cloud technologies.
* **Everyday Leader 2020, Junior Strategic Advisor for Everyday Leader Program 2021.**
* Strong business and technical skills and ability to translate business functions and requirements into terms that are meaningful to software developers.
* Led multiple diverse global and onsite cross functional teams **with experience as an architect, team lead, and individual contributor.**
* Expertise (3+ years) in migrating legacy applications onto Cloud with minimum impact on business performance (esp. Pivotal/VMware Tanzu Cloud Foundry Platform).
* In-depth hands on experience with micro services, Kafka on Cloud VMware, AWS EC2.
* 4+ years Hands on experience with NoSQL databases Mongo Db, Cassandra, DynamoDB
* 15+ years of rational databases Oracle, Sybase, Db2, MS SQL Server.
* Hands on experience in using SOA, MVC and Micro service, Software Design Patterns GoF, Java EE Design Patterns, GRASP and SOLID Principles. Good understanding of Domain Driven Design (DDD)
* Fast Learner, good team lead and player, enjoys working under pressure and tight schedules. Delivered projects to meet regulatory deadlines on time, saving money on many occasions

## **Objective**

My main objective is to work in an environment that pushes the limits of my abilities and provides me the opportunities to gain the respect of my peers. Ideal position will be that which gives me the responsibility and freedom to use my experience, skills and creativity to craft innovative open architecture solutions to the problem today and tomorrow.

## **Professional Experience**

## **Wells Fargo Oct 2013 – Current**

**Capital Market Credit Risk**

**Minneapolis, MN**

### **Project: Transformation HUB Minneapolis (Horizontal Technology -LP&D Migration)**

**My Role:**

* Assessing and guiding applications in the HLT/CMCR for migration to cloud
* **Responsible for** 
  + PCF Migration Onboarding
    - Access to Prod and non-prod, service accounts **(AppD, Splunk Venafi, uDeploy, GitHub, Artifactory, Jenkin.**
    - Responsible for maintain Git repository of a complex application**,** multiple components
    - Collaborate with DevOps in setting up Jenkin, uDeploy, Splunk, AppD and Venafi**.**
    - Integrated **SonarQube, Fortify Scan and Blackduck Scan**
    - Helped cloud based applications **(using uDeploy and Jenkin)** to Enterprise Pipeline Migration

### **Project: Loan Preparation and Onboarding (LPO) migration to Cloud**

* + Migrating multiple components (Web, Services, Batch and common java projects to cloud.
  + Configuring and managing Cloud Onboarding( Svn to Git, 12 factor, configuring uDeploy, Jenkin, Splunk, Venafi, SonarQube, Fortify, Blackduck, Threadfix etc
  + Migrating JAVA TO SEAR Framework.
  + After Migrating YUI/Java script to Angular Unified Framework
  + Adding Unit testing in the Angular
  + Reimburse Service for Private Investor (RMBS) using Kafka.
  + POC using Kafka for existing batch applications.

### **Project: SMS Retirement**

### Move Loan view functionality from retiring PowerBuilder application (SMS) to existing Loan Preparation and Onboarding (LPO) application.

**My Role:**

Leading developers’ team; Gathering requirements; Creating FSD (Functional Specification Document) and collaboration with business and

**Project:** **Migrating Applications from PowerBuilder**

* Move three applications FHA(Federal Housing Administration), Veteran Administration(VA) and Hive (Batch) from PowerBuilder and Tibco to the Java platform.

**My Role:**

* Understanding, documenting functionalities and flow of these 20-year-old applications by meeting business and production support.
* Architect and design into Web and Batch applications. Created Use Case(s) and Functional Specification Document (FSD)
* Collaborated with iBUS team to create a successful connection to the external FHAC B2G application and drop box and pickup box (HULA NAS) for Veteran Administration.

### **Project: Configuring Enterprise Architect for common use**

Designed a process, templates and governance polices for adding any artifacts (architecture pattern, design patterns or any other building blocks) in the shareable architecture repository.

Artifacts includes, Requirements, Logical Model, Conceptual Models, Use Cases, Activity Diagrams, State Diagrams, Design patterns and other building blocks to be available for re-use.

### **Project: Dynamic Questionnaire in a Web Applications**

A web application with a dynamic questionnaire; Generating questionnaire from database in a hierarchal sectional structure. Each question can have behavioral constraint and/or severity constraint.

Ability to review and to print as PDF. Can add comments on each question and escalate; filter questions based on severity level of the answer, or review status. Aim was to create reusable forms to certify correspondent lenders and later to be served to client facing applications through web services.

**My Role:**

* Designed and creates a POC
* Led the team and developed the application.

Got real appreciation from business as it meets there urgent need and got what they asked for.

### **Project:** Eligibility Decision System performance evaluation.

Capital Market Eligibility Decision System: Replacing existing legacy system rules/decisions/business logic in the database with new application using Drools based rule engine, DECISION from Sapiens.

**My Role:**

* Created performance and load test strategies of the batch and web application
* Configured tomcat (concurrent threads, stackSize for each thread, HeapSize, permSize, # of JVMs on each server, JVM tuning, multi-threaded design
* POC on testing with different server configurations comparing performance and storage requirements of Lucene based payload search solution
* Involved with DBA in database tuning (query tuning, table partitioning, buffers)

**Technologies Used:** CAIntroscope 8.x**,** Sapiens Drools based rule engine, MQ, Java, Spring, SOAP/REST, MVC, HTML, CSS3, Spring Security, YIU, JQuery, Oracle, MS Project, Enterprise Architecture.

**Prime Therapeutics Eagan MN – Technical Consultant Nov 2012 – Oct 2013**

**Project:** The Guided Health platform for better management of pharmacy utilization, gaps, safety and costs,

**My Role:**

My role was in improving the performance of the application. I was involved in re-architecting and re-designing, and made it an open, and scalable robust, efficient and high-performance application.

* Identifying bottle neck and do POCs and comparison and evaluation.
* Upgrading from Axis 1.4 to Axis 2.0 on Corticon server.
* POC on changing SOAP to Rest call and comparing performance with production data.
* POC on loading Corticon in memory instead of loading Corticon on a separate server as a web service comparing performance with production data. Created load and performance test plan
* Involved in new architect **event driven system** an alternate of batch process, Did POC on it and comparing effectiveness and performance with production data.

**Skills Used:** Visio, Java, J2EE, Spring IOC, JMS, MQ Series, Restful Web Services, DB2, Ant 1.7.4, Maven 3.0.5, STS 3.6, Jira 6.0, Axis-1.x, 2.x, Confluence 5.1.3, Crucible 3.0, Fisheye, IBM RAD 8.0.4, WAS 7.5

**Cigna - Team Lead June 2012 – Nov 2012**

**Project:** C.O.D.E. Runner is an end-to-end clinical infrastructure project.

**My Role:**

* + Gathering functional requirements from business. Collaborating and finalizing design.
  + Design reviews along with Enterprise Architects
  + Either created or making sure to have Wiki for each story.
  + Lead a team of 6 developers. I was responsible for implementing ‘Auto Assignment’ functionality in the CODE Runner in both Desktop and Batch Module.

**Skills Used:** Java, J2EE, JSP, JUnit, Mockito, Eclemma, iBatis 3.1, Spring IOC, AOP, MQ JMS, EhCache, Oracle 11g, Drools, jBPM, JSTL, Flex , MVP, Maven, STS 3.6, Rally for Agile Stories and tasks.

**Carlson Wagonlit Technologies - Java Architect Feb 2012 – June 2012**

**Project:** Re-architecting Client facing high transaction volume existing legacy application from DOS, C, .Net to Java, Drools, JBPM.

**My Role:**

* + Working with Enterprise Architect to analyze so that it fits in the Enterprise System Architecture framework
  + Done POC feasibility of open source Drools to capture Identify potential bottlenecks
  + Main emphasis is on performance and vertical and horizontal scalability.
  + Created Conceptual Model, Component Model, Technical Specifications Document.
  + Created high level design and detail design
  + Making sure PCI Compliant along with Enterprise policy
  + Helped in setting up of development environment, 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.

**Skills Used:** Java, J2EE, JSP, JUnit, Eclemma, Hibernate, Spring IOC, AOP, MQ JMS, distributed EhCache, Oracle 11g, **Drools**, **jBPM**, JSTL, Spring tags, Maven, STS 3.6, Rally for Agile Stories and tasks.

**McKesson Technology Solutions - Technical Consultants Sept 2011 – Feb 2012**

**Project:** Integration of applications; ‘Horizon Quality Monitor (HQM)’ and ‘Horizon Enterprise Visibility (HEV)’

**My Role:**

* + Analyzed exiting product and designed solution for integrations.
  + Wrote special queries to fetch the data needed to converted to XML and sent to queue.
  + Support pages using Spring controllers, tags and JSTL for sending to queue based on various criteria.
  + Introduced JMock for the testing and for coverage Emma

**Skills Used:** Java, J2EE, JSP, JUnit, Eclemma, Hibernate 3.1, Spring IOC, AOP, MQ JMS, Oracle 11g, Oracle AQ, JSTL, Spring tags, GWT, MVP, Maven, STS 3.6, StarTeam, Groovy, Rally.

**Royal Bank of Canada - Application Architect April 2011 – Sept. 2011**

**My Role and Responsibilities:**

Designed and architecture new project; documenting the technical details including UML and use cases. Setup a process and guidelines to be followed by local and outsourced developers. That included setting up framework and environment.

1. Annuity and Insurance (AANDI)
   * Identified right technologies from the existing available choices and enterprise polices
   * Created Software Architecture Document showing the description of software architecture, including major software components and their integration.
   * Designed n-layer interacting with mainframe, JMS, two databases and external clients.
   * Created a working prototype with following technologies Spring, Spring Security, MVC, AOP, Hibernate, Spring-REST, XML-Beans, MQ JMS, WebSphere Application Server (WAS 7.0), MS-SQL Server 2008, AJAX, JSTL, Spring tags, JQuery.
2. Reorganization One and Done (ROAD)

* Upgrading from Java 1.4 to Java 1.6 and moving from WAS 6.0 to WAS 7.5

**Skills Used:** Java, J2EE, JSP, JUNIT, Hibernate 3.1, Spring IOC, AOP, MQ JMS, DB2, MSSQL Server WAS 7.0, RSA, SOAP and REST Web Services, Axis-2 , AJAX, JSTL, Spring tags, JQuery , CVS, SVN.

**Wells Fargo WMG – Technical Consultant Oct 2009 – April 2011**

I led the design and development of various web services using a Test-Driven Development (TDD) approach. Development methodology used was the SCRUM Agile methodology. Process included iterative development, 2-week sprints, and daily stand-up meetings, and customer managed backlog.

**My Role and Responsibilities:**

* Designed and developed web services using SOAP, Axis, xml-beans.
* Involved in schema design and schema reviews.
* Developed Mock Object tests, Integration tests (Meddler).

**Skills Used:** Agile, Scrum, Java, J2EE, EJB 3, JSP, JUNIT, Hibernate 3.1, Spring IOC, AOP, MVC, Oracle 10g, WebLogic 9.2, Tangosol/Oracle Coherence, JAX-WS SOAP Web Services, Axis-2, Ivy, ECL Emma, Check Style, Find Bugs, Confluence Enterprise Wiki, Crucible, CVS, SVN (Tortoise)

## **Comcast, Mt. Laurel, NJ - Sr. Application Consultant July 2009 – Oct 2009**

**Project:** 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 contract.

**My Role and Responsibilities:**

* Architecture and designing of the application using Spring-DWR, Struts, AJAX, SOAP web services.
* Developed business layer and presentation showing Scheduled Time and Slot for customer installation of the Comcast products.

**Skills Used:** 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 - Team Lead Sept. 2005 – June 2009**

### **>Project:** Multi Service Aviation WEBPOS (MSA-WEBPOS)

**My Role and Responsibilities:**

* 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
* Web application profiling, using JProbe.

**Result:** Other than successful migration, successfully implemented new enhancements, new features (Receipt printing as PDF) and transition from WAS 6.0 to WAS 6.1.

**Skills Used:** WebSphere Application Server (WAS 6.1), RAD 7.1, Rational Rose, SVN, Active Directory, Jasper Reports, iText, J2EE, EJB 3.0, JSP, JUNIT, XML, DOM, XSD, MQ, Hibernate 3.1, Spring, Oracle 9i.

### **>Project:** VOYAGER Fleet Systems

**My Role:**

* 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 modules, where client can request more than one credit card (up to 99) for his fleet/drivers.

**Result:** Successfully implementation to production and edge over competitors & helped in winning contract.

**Skills Used:** Rational Application Developer (RAD 7.1), Rational Rose, Clear-Case, Java, Facelets, Hibernate 3.1, Agile Methodology, Spring, Oracle 10g, DB2, AJAX, XML, Microsoft MapPoint, SOAP.

### **>Project:** Access Online (AXOL)

**My Role:**

* Helped in new enhancements and code refactoring.
* 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.

**Result:** Successfully implemented various enhancements and code improvements

**Skills Used:** WebSphere, Rational Rose, ClearCase, ClearQuest, J2EE, EJB, JSP, Servlet, Spring MVC, Hibernate 3.0, Taglibs, Oracle 9i, DB2, MS-SQL, DB2, TIBCO In Concert 6.2.1 and BW 5.4, WS-BPEL, JMS/EMS, Web Services, XML DOM, XSLT, XPATH, XQuery, XSD, XLINK, Sun Solaris Unix.

**3M, MN - Architect/Team Lead Feb. 2001 – Sept. 2005**

## **Project:** Multimedia Conferencing Service Web Services interface with Global Crossing

**My Role:**

* Created System Architectural Document (SAD) and Functional Specification Document (FSD).
* Design used web services for subscription process and data cleanup on vendor end.
* Coordinated with Global Crossing Team during development, evaluating issues in API. Security & connection and testing from development to QA to Staging and production.

**Project: Cellular Service Website:** Website that authorized end user can edit the web pages dynamically on the browser. Able to accept work orders (e.g. New cellular phone, replace existing phone, transfers to corporate account, add accessories, add or remove features and cancellations).

**My Role:**

* **Architect, designed application, testing prototype for design and evaluation.**
* Gathering user requirements, business use-cases based on the requirements.
* Involved in all phases of coding, development and testing.

**Multimedia Conferencing Service:** A web based quick and easy way to manage conferencing database. Most of the information is displayed on the website.

**Skills Used:** Java 1.3, J2EE, Struts 1.1, Web-Sphere Studio Application Developer (WSAD), JSP, Servlets, Java, J2EE, Struts, XML, XSLT, DOM, MS-SQL, Oracle, DB2, 3M Persistence Framework, Rational Rose.

## **Technical Skills**

**Systems Architecture:** Object-Oriented Analysis and Design, Principles of Object-Oriented Programming, Software Design Patterns GoF, General Responsibility Assignment Software Patterns GRASP, SOLID Principles, Aspect-Oriented Programming AOP

**Programming: Java, Groovy, Python, HTML5, CSS, JDOM, DHTML, XML, XSLT, XSD, XPATH, WSDL, SOAP, Node-js, Angular, Typescript, jQuery, JSON, Ajax, Angular, Objective-C, SQL, HQL, EJB-QL, UML, DTD**

**SOA Technologies: Service-Oriented Analysis and Design, Principles of Service Design, SOA Design Patterns, Service Orchestration, Enterprise Service Bus ESB , Message Oriented Middleware MOM , Service Component Architecture SCA , Event-Driven Architecture EDA, Data Driven Architecture DDD**

**Java Technologies: JSP, Servlets, EJB, Struts, Spring, Spring MVC, Hibernate, JSTL, JavaBeans, Java I/O, Sockets, RMI, JDBC, JPA, HTTP Connections, JMS, Web Services, RESTful Services, JNDI, JavaMail, AWT, Swing, Java Applets, Spock, Cobertura/Emma, Log4j, Ant, AJAX, GWT, , JUnit, JMS, PHP, C, C++, C#,.VB.Net, ANT, JMock, Mockito, JSF, TIBCO In-Concert, Business Works 5, Introscope, SOA, SOAP and RESTful Web Services (JAX-RS), Sapiens Decisions.**

**Methodologies: SDLC, Waterfall, AGILE, Scrum, TDD.**

**Database Related: Oracle 9i/10g/11, PL/SQL, DB2, SQL Express 2005, SQL, MySQL, Sybase, HQL, Couchbase, MongoDB, Hadoop, HBase, Hive.**

**Object Oriented: UML, Design Patterns, Use cases, RUP, Enterprise Architecture**

**Version Control:** SVN, Git, IVY, CVS, PVCS, Rational ClearCase

## **Education:**

* Master of Computer Application: Thapar Institute of Engineering & Technology (1989), Patiala, India.
* Bachelor of Sciences: Punjab University, Chandigarh, India
* Project Management Professional, 2005.
* Certified TOGAF, 2015