**Pravin Manokaran**

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**PROFESSIONAL SUMMARY**

* **Senior Java/J2EE Developer** with **71/2 years** of professional experience in developing, deploying, and maintaining Distributed Enterprise Applications
* Expertise in developing Multi-tier Enterprise Level Web Applications involving J2EE technologies like **Java AWT, Swing, JSP 2.1/2.2, Servlets, JSF, EJB 3.0/3.1, JDBC 3.0/4.0, JNDI, Hibernate 3.0/3.5, Spring 2.5/3.0, Struts 1.2/2.0/2.3,** along with **HTML5, DHTML, XHTML, CSS3, XML, JSON, JavaScript, AJAX, jQuery, Node.js,** and **Shell Script**.
* Expertise in Object Oriented Programming (**OOP**) **Concurrency, Multi-Threading,** and **Memory Management**.
* Expertise in developing Web Services such as **REST, RESTful,** and **SOAP** for commercial software applications.
* Well experienced in implementing Object Relational Mapping (**ORM**) framework including **Spring AOP**.
* Accomplished a series of internet/intranet Java-based applications with different **IDE**s such as **Eclipse 3.2/3.3/3.6/4.0**, **IBM RAD 6.0/7.0/7.5**, and **IBM WSAD 4.0/5.0**.
* Strong experience in deployment and configuration of Application Servers such as **IBM WebSphere 5.x/6.x/7.0/8.0, BEA WebLogic 8.x/10.x/12c, JAX-WS, JBOSS** and **Apache Tomcat 4.x/5.x**.
* Proficient in **XML** technologies like **XSL/XSLT, SAX, DOM, XPath, SOAP, WSDL, DTD, XSD, JAXB, JAXP** and **Apache Axis.**
* **XML, Flat File,** and **Excel data** transformation to **MySQL** Database as part of **ETL** Processing.
* Experienced in message oriented middleware technology such as Java Message Service (**JMS**).
* Experienced in developing middle tier applications using Enterprise Service Bus (**ESB**) – Mule.
* Expertise in implementing various design patterns like **Model View Controller**, Decorator, Factory Pattern, Session Facade, Singleton, Front Controller, Business Delegate, Service Locator, DAO, and DTO.
* Extensive experience in **Database Design (Normalization), Data Modeling, Data Cleaning,** and **Data Migration**.
* Worked on the continuous integration tool like **Jenkins** and **Selenium**.
* Experienced in build tools such as **Git, Maven, Grandle,** and **Shell Script** for automation and integration.
* Experience with **TDD** using various unit-testing framework such as **JUnit, HTTPUnit,** and knowledge of **ANT**(Build Tool0 and **Log4j**(Logging Utility) Tools.
* Highly skilled in using major **RDBMS** concepts such as **Oracle 11g/10g/9i, DB2, MySQL, MS Access,** and **MS SQL Server2000/2005**.
* Proficient in writing **PL/SQL Stored Procedures, Triggers** and **Views.**
* Worked on **Conceptwave (an order management tool)** for maintaining CRM applications.
* Experience in version control systems like **GIT, Tortoise SVN, CVS**, **Visual Source Safe** and **Clear Case.**
* Experience in MVC Architecture using **Jakarta Struts 1.3** with features like the Validation Framework, Tiles Framework, and Internationalization.
* Experience in **Prototyping, Agile, Scrum, Water-Fall** and Rapid Application Development **(RAD)** methodologies.
* Experience with Object Oriented Design (**OOD**) and Object Oriented Analysis (**OOA**) along with **UML** associated tools such as **IBM Rational Rose.**
* Experienced in developing UML diagrams like Use Case Diagrams, Class diagrams, Sequence Diagrams, and Behavior Diagrams.
* Developed high performance interactive **Java-Flash/FLEX** applications in various verticals including Healthcare and Telecom domain.
* Expertise in UI App Development using **Adobe FLEX** framework with **Actionscript** with Java.
* Automated Apache, Web server installations using **Puppet** and DB configuration using Puppet.
* Experience in working with different operating systems **Windows, Linux, and UNIX.**
* Expertise in Code Reviews, Bug fixes and Unit & System testing, troubleshooting production incidents/issues.
* Served **Banking, Financial,** and **Healthcare** Organizations.
* Supported various projects and worked closely with **Off-shore Teams**.
* Efficient team member with excellent work/time management skills, communications and interpersonal skills, and ability to work under **strict deadlines**.

**TECHNICAL SKILLS**

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| **Languages** | Core Java |
| **Databases** | Oracle 11g/10g/9i, MySQL, SQL Server 2005, MongoDB 2.x, 3.0.0 |
| **J2EE Technologies** | Servlets 2.4/2.5/3.0, JSP 2.1/2.2, JSF 2.0, EJB 3.0/3.1,JDBC 3.0/4.0 |
| **Web Technologies** | HTML5, CSS3, XML, JSON, JavaScript, Angular JS, jQuery, Bootstrap |
| **Application Frameworks** | Hibernate 3.0/3.5, Spring 2.0/2.5/3.0, Struts 1.2/2.0/3.0 |
| **Web Application Servers** | Apache Tomcat 4.x/5.x, WebLogic 8.x/10.x/12c, IBM WebSphere 8.0/7.0/6.x/5.x |
| **Protocols** | HTTP, SOAP |
| **Methodologies** | Agile, Scrum, Water-fall |
| **Version Control** | GIT, CVS, Tortoise SVN, ClearCase |
| **IDE Tools** | Eclipse 3.2/3.3/3.6/4.x, RAD 6.0/7.0/7.5, WSAD 5.0/4.0, NetBeans 8.0.2, Puppet Enterprise, Puppet Management |
| **Build Tools** | Apache ANT, Maven 1.4, Conceptwave Ordercare Suite 4.x, Adobe Flex Actionscript 2.0/3.0 |
| **Design Tools** | Microsoft Visio, Rational Rose, MS Project |
| **Operating Systems** | Windows, Linux, UNIX |

**EDUCATION**

* Bachelor of Technology, Computer Science and Engineering, Bharath University, India

**PROFESSIONAL EXPERIENCE**

**Senior J2EE Developer**

**Assurant Solutions, Atlanta, GA Apr 2015 – Present**

**Project: Agent Desktop**

Agent Desktop is a CRM application (N Tier Architecture/Specifications) for Extended Service Contracts (ESC) product line. It is mainly used by call center representatives to manage customer inquiries. Assurant’s Extended Protection Service (EPS) comes under ESC. These ESCs are sold by both large companies (Staples, Sears, BestBuy Canada, and Radio Shack) and small retailers.

**Responsibilities:**

* Implemented major concepts of **Core Java** such as OOPS, Multi-threading, Collection Framework, Memory Management along with Enterprise Java Beans on **REST** based Web Service.
* Involved in Requirement Gathering, Software Requirement Specification, System Design, and Documentation throughout the project.
* Developed **REST** web service in **Maven** Development environment and shared it with counterparts.
* Implemented **Puppet DB** for configuration management to existing infrastructure.
* Implemented the application using **Struts Framework**, which is based on Model View Controller design pattern.
* Used Struts Framework for action mappings and refracted the **Action Servlets** and **JSPs** using Struts – MVC architecture.
* Developed user interface using **JSP, JSTL** and **Struts Tag Libraries** to simplify the complexities of the application and also worked with **JavaScript** on **AngularJS**.
* Created a **Node.js** server and designed GET and POST AJAX Calls to implement vital functionalities.
* Mapped **XML** to Java Objects using **DOM** XML Parser in the view of marshalling and un-marshalling.
* Involved in upgrading servers to the latest **JDK** versions.
* Wrote client-side and server-side validations using Struts Validators and JavaScript Validators.
* Implemented **XSL** transforms to translate XML marked up instructions for **Ticket Processing** into **HTML** formats.
* Designed and coded in **Java/J2EE Spring** and **Adobe FLEX Actionscript.**
* Developed various widgets and pages using **FLEX**.
* Developed API’s for application and integrated it to **FLEX**.
* Configuration and deployments of **AXIS2** components on **WebLogic** application server at class loader level, and used the same to build and consume the web services (both synchronous and asynchronous).
* Strong implementations of data persistency using Hibernate and Spring Framework.
* Developed components of **Web Services** (JAX-WS, REST, JAX-RPC) end to end, using different JAX-WS standards with clear understanding on **WSDL** (Type, Message, Port Type, Bindings, and Service).
* The Java Message Service (**JMS**) API is used to allow application components to create, send, receive, and read messages.
* Implemented **WMQ** as the JMS for reliable and asynchronous exchange information.
* Installed WebSphere Server for handling **HTTP Request/Response**. The request and response from the client are controlled using Session Tracking in JSP.
* Session Beans were developed to process the requests from the user.
* Used Web Services – **WSDL** and **SOAP** for getting credit card information from third party.
* Implemented various design patterns in the project such as **Business Delegate, Session Façade, Data Transfer Object, Data Access Object,** and **Service Locator.**
* Designed various tables required for the project in Oracle database and used created **Stored Procedures** and **Prepared Statements** for various database operations.
* Understanding of cloud based deployments into Amazon EC2 with Puppet.
* Performed unit testing using **JUnit** framework and used **Struts Test Cases** for testing Action Classes.
* Implemented various validation controls for form validation and **custom validation controls** with **jQuery**.
* Used **Firefox Poster Plug-in** for testing **REST** Web Services.
* Updated pages using HTML5, CSS3, in **AngularJS** framework and created **Responsive Web Pages** using **Bootstrap** framework.
* Used **SVN** to keep track of all the implementations and modifications done in the project, allowing several developers to collaborate.
* Used **Agile** methodology in the software development process.

**Environment:** JDK 1.7, Linux, Servlets, JSP 2.2, FLEX Actionscript 3.0, Puppet Enterprise, Maven, XML, Node.js, jQuery, Spring 3.0, Struts 3.0, Hibernate 3.0, Web Service(JAX-WS), JDBC 4.0, HTML5, CSS3, SVN, WebLogic 12c, Visio, Eclipse 4.0 Luna, Log4j, Oracle 11g, MS Project, and ANT.

**Senior J2EE Developer**

**NiSource, West Virginia, VA Jan 2014 – Mar 2015**

**Project: Rational System**

Rational System is a multi-tier J2EE based complex application to manage large set of gas pipelines with complex requirements. Functionalities including Gas pipeline configuration, Contract creation, Automated allocation and confirmations, Capacity releasing, Volume accounting, Imbalance management, Imbalance Trading, Invoicing & Billing, Gas Accounting and workflows.

**Responsibilities:**

* Implemented **Multi-threading** and other **Core Java** concepts throughout the project.
* Implemented Cash and Margin Management in the application architecture.
* Used Java Message Service (**JMS**) API to allow application components to create, send, receive, and read messages.
* Developed cross-browser/platform HTML5, CSS3, and JavaScript to match design specs for complex page layouts while adhering to code standards.
* Implemented the project in **Maven** from the scratch and added dependency injection along with MVC & Validator.
* Developed a prototype of the application and demonstrated to business users to verify the application functionality.
* Completed the User Interface migration from **FLEX** to Angular.JS to provide mobile portability.
* Developed User Interface using **JSF** and **JavaScript** with **AngularJS.**
* Implemented various validation controls for form validation and **custom validation controls** with **jQuery**.
* Developed and implemented **MVC** architectural pattern using Struts framework including EJB, Form Bean, and Action Classes.
* Designed process flows and Class diagrams using **UML** on **MS Visio**.
* Worked with UX designers when designing wireframes and analyzed user stories corresponding to wireframes.
* Developed Business components using Java Beans and database connections using Spring JDBC, Spring DAO API.
* Developed Web components using **Spring MVC** and **Spring Web-Flow**.
* Implemented Spring **AOP** features such as **Spring Bean Auto Wiring** Interceptor to inject Spring Beans Context into EJBs.
* Used Hibernate for database persistence layer and Spring for bean instantiation, and Hibernate APIs to retrieve and store the data to the database with Hibernate Transaction Control.
* Developed **SOAP** web services and **WebLogic** server in **RAD** IDE.
* Used **JSON** and AJAX with jQuery for request data and response processing.
* Extensively used **AJAX** calls to transfer **JSON** data and rendered the data to **DOM**.
* Used **SOAP UI** to test the web services and mock response for unit testing the web services.
* Developed Stub projects for **WSDL** and **WADL** using **Apache CXF.**
* Implemented business components based on J2EE Design Patterns such as **DAO**, **ValueObject, Singleton, Factory design patterns**.
* Created Data tables and implemented **Stored Procedures**, **SQL Queries**, and **Functions** on **Oracle** Database.
* Used **Conceptwave** for checking the logs and further determining the root cause of an issue and order management.
* Engaged with **TDD** and developed test cases based on the project specification.  
  Wrote the **JPA** annotation entities for Oracle Database.
* Engaged with client and stakeholder discussions to acquire software requirements for the application.
* Worked in Agile methodology environment including **Acceptance Test Driven Design** and **Continuous Integration/Delivery**.

**Environment:** JDK 1.7, J2EE, JSON, FLEX, Struts 2.3, Spring 3.0, Hibernate 3.5, RAD 7.0, JSP 2.2, JQuery, Oracle 10g, MS Project, SQL Loader, JAX-RS, Unix Shell script, TDD, SOAP UI, Maven, JMS 1.1, Conceptwave, WebLogic 10.3.

**J2EE Developer**

**Bookspan, New York, NY Mar 2013 – Dec 2013**

**Project: Customer Management System**

Bookspan is dedicated to re-imagining how books are discovered, purchased, and experienced online. It operates 19 well-known and influential book clubs, including Book-of-the-Month and Doubleday Book Club. This CMS software helps many customers online to find out their stack of favorite books at one place and it also connects authors and readers.

**Responsibilities:**

* Implemented Core Java/J2EE major concepts including **Synchronization, Serialization, Collection, Servlets,** and **JDBC.**
* Designed User Interfaces based on **Java-Flash/FLEX Actionscript**.
* Worked on designing and developing **JSON** and **XML** Objects.
* Used XML Parsers such as **DOM** and **SAX** to map the XML and Java Objects.
* Interacted Java Controllers (**jQuery, AJAX, and JSON**) to write/read data from Back-end systems.
* Involved in the design and development phases of Agile Software Development.
* Designed Use Case Diagrams, Class Diagrams and Sequence Diagrams and object Diagrams, using **IBM Rational Rose** to model the detail design of the application.
* Consumed Web Services from third party for Virus Scanning and Documentation.
* Application was based on **MVC** architecture with **JSP** serving as presentation layer, **Servlets** as controller and Hibernate in business layer to access to **MySQL** Database.
* Extensively used **GWT** Google Web Toolkit for rich web interfaces.
* Strong implementations of data persistency using Hibernate and Spring Framework.
* Developed the application using Jakarta **Struts** Framework: developed action classes, form beans and **Java Server Pages, Struts-Tiles** using **Eclipse** IDE**.**
* Used Dependency Injection feature of **Spring** framework and O/R mapping tool Hibernate for rapid development and ease of maintenance.
* Implemented Spring **AOP** features such as **Spring Bean Auto Wiring** Interceptor to inject Spring Beans Context into EJBs.
* Involved in design utilizing **Spring Inversion Of Control** (IOC) architecture and Hibernate.
* Extensively used **SOAP** Web services for transferring/retrieving data between different Applications.
* Worked with **SOAP UI** for functional testing of the SOAP web service.
* Involved in implementing the **DAO** pattern for database access.
* Used **JAXB API** to bind **XML** Schema to java classes.
* Implemented **XML Data Transfer** between multiple clients since it’s completely SOAP based web service.
* **XML** and **Excel Spreadsheet Data Migratio**n to respective **RDBMS** to load the **Bulk Data**.
* Used **IBM-MQ** Series with **JMS** and **MDB** for communication with different platform.
* Used **Hibernate** extensively to store the persistence data into the database and written HQL to access the data from the database.
* Achieved order management mechanisms of Bookspan using **Conceptwave** tool.
* Worked on **Git** build tool for continuous integration of the application.
* Developed the **jQuery** functions with **AJAX** implementation to make the application user interactive and some GUI screens in JSP.
* Worked with **MySQL** Database and created **SQL Queries** to perform **CRUD** operations on each DB Transaction.
* Tested the application functionality with **JUnit** Test Cases and Suites.
* Involved in brainstorm sessions for requirement gathering and requirement analysis along with clients, stakeholders, and business intelligence team.
* Automated build process by writing **ANT** build scripts.
* Developed logging module-using **Log4J** to create log files to debug as well as trace application.
* Deployed the applications on **WebLogic** web server.

**Environment:** JDK 1.5, FLEX Actionscript 2.0, WebLogic 10.3, Hibernate 3.0, Struts 2.3, Spring 1.0.2, Servlets, JSP 2.1, Eclipse 3.3, JSON, XML, XSLT, JAXB, SOAP, SOAP UI, JMS, WSDL, JavaScript, jQuery, AJAX, Git, MySQL, MS Project, UNIX, JUnit, ANT, Conceptwave, and Log4J.

**J2EE Developer**

**Kentucky Mutual Insurance, Lexington, KY Jan 2012 – Feb 2013**

**Project: Employer Insurance**

Kentucky Employers' Mutual Insurance is the largest provider of workers’ compensation insurance in Kentucky, providing coverage to more than 23,000 policyholders in all 120 counties of the state. Their application enhances system to fulfill user needs and business policies and claims services to their policyholders.

**Responsibilities:**

* Implemented OO Design Concepts, Exception Handling, Identifying and Fixing Potential Memory, Performance, and Transactional issues throughout the application.
* Responsible for developing the reports design and format using JReport Designer from the requirements specifications involving **Core Java, J2EE, JSP, JSTL, Servlets, Struts, UML** and **XML.**
* Provided mock-ups of all the different types of reports in a specified format designed by **VISA** using **Dreamweaver**.
* Used **PDFRenderer** Tool to generate customer in-voice in the form of PDF format.
* Generated the queries related to each one of the different reports using **MongoDB** and AQT DB Client Tool and also developed the enterprise beans for each one of the reports.
* Worked on **MongoDB** database concepts such as locking, transactions, indices, replication, and schema design.
* Implemented read preferences in **MongoDB** replica set.
* Created DB2 Queries for various database transactions using Stored Procedures.
* Modified the UI design of the Web Application according to the report parameters.
* Designed and Implemented **MVC** architecture using Struts Framework.
* Developed Action Classes and Handlers and route the request to the JSP.
* Used **JSP, JavaScript, HTML5,** and **CSS3** for manipulating, validating, customizing error messages to the User Interface.
* Used **Node.js** and express framework to develop vital components for the application thus creating a happy path right from login to checkout component.
* Extensively used JSP in the view of **MVC** architecture.
* Involved in **Unit Testing, Sanity Testing** and **Integration testing** of all the reports and report parameters from **WebSphere** Enterprise Server and the Web Application.
* Strong implementations of data persistency using Hibernate and Spring Framework.
* Reverse engineered the Java code from Excelon data store into requirements documentation for use in another module.
* Used Web Services – **WSDL** and **SOAP** for getting credit card information from third party.
* Used **ANT** to write build scripts for several components involved in the project.
* Utilized **CVS** to check in and checkout project modules and co-ordinate with other team developers.
* Worked on **ClearQuest** for maintaining project status, identify defects and resolve issues in development.
* Bug fixing, functional testing, production support, and maintenance.
* Helped with writing software specifications based on the requirement and functional design.

**Environment:** JDK 1.6,JSP 2.1, Struts 2.0, Spring 1.0.2, HTML5, CSS3, JavaScript, Node.js, Hibernate 3.0, WebSphere 6.1, JUnit, log4j, Ant, WSAD, CVS, ClearQuest, Visio, MongoDB 2.x, AQT, Eclipse 3.5, PDFRenderer, JReport Designer, JReport Enterprise Server, and Linux.

**Software Engineer**

**Feature Software Solutions, India Sep 2010 – Dec 2011**

**Project: Inventory Tracking System**

The software application allows the company to manage its inventory to achieve a lower inventory cost. The application is shared by the company and its suppliers to manage supply orders and status. All the modules are designed and developed using Java, JavaScript, and Oracle.

**Responsibilities:**

* Developed Core Java practices like Multi-threading, Collections, and Memory Managements in the entire software application.
* Implemented **REST** web services (Desktop Based) solution for an inventory application.
* Involved in the analysis, design, and development phase of the application.
* Created Class, Activity, and Sequence Diagrams using **IBM Rational Rose** modeling tool.
* Developed the presentation layer using **JSP**, **HTML5, CSS3,**and **Servlets** with **Eclipse** IDE tool.
* Used **JavaScript** for client-side validations.
* Used Spring framework for middle tier development to achieve inversion of control.
* Developed **Message Driven Beans** for send asynchronous notification messages.
* Designed and developed numerous Session Beans and deployed on **WebLogic** Application web Server.
* Used **JMS** for sending asynchronous data between the different session beans.
* Strong implementations of data persistency using **Hibernate** and **Spring Framework**.
* Wrote stored procedures, complex queries using **PL/SQL** to extract data from the database, delete data and reload data on **Oracle DB**.
* Wrote Test Cases for Functional Testing using **JUnit** and **TestNG**.
* Used **CVS** for version control and inter-connected with other developers using the same platform.
* Implemented **Log4J** for Logging Errors, debugging and tracking.
* Worked with Water-fall Software Development Lifecycle.

**Environment:** JDK 1.5, Linux, JSP 2.1, Servlets, Struts 1.1, JDBC 4.0, EJB, JMS, Spring2.0, Hibernate 3.0, AJAX, Oracle 9i, XML, XSLT, HTML4, CSS, WebLogic 8.0, UML, Eclipse 3.2, PL/SQL, JUnit, Apache Ant, CVS, Log4j

**Software Engineer**

**Aggrim Technologies, India Jun 2008 – Aug 2010**

**Project: Stock Market Analysis**

This project involved in creating software for generating current stock pricelist of various companies and providing the facility of online linking to trading. The user can get the information about various companies in terms of profit, loss statement, companies’ balance sheet and its future plans, companies’ fast performance, stock values and present trend etc., through Internet.

**Responsibilities:**

* Developed Core Java coding along with Front-end technologies such as HTML5, CSS3, JavaScript, and jQuery.
* Involved in Requirements gathering, Requirement analysis, Design, Development, Integration and Deployment.
* Involved in Tax module and Order Processing module.
* Responsible for the design and development of the application framework.
* Designed and Developed UI’s using **JSP** by following **MVC** architecture.
* Developed the application using **Struts** framework. The views are programmed using JSP pages with the struts tag library, Model is the combination of **EJBs** and Java classes, and web implementation controllers are **Servlets**.
* Developed implementations using **WSAD** and deployed the application on **IBM WebSphere** web server.
* The **Java Message Service** (JMS) API is used to allow application components to create, send, receive, and read messages.
* Used JUnit for unit testing of the system and **Log4J** for logging.
* Created and maintained data using **Oracle** database and used **JDBC** for database connectivity.
* Created and implemented **Oracle Stored Procedures** and **Triggers.**
* Installed **WebSphere** Application Web Server for handling **HTTP Request/Response**. The request and response from the client are controlled using Session Tracking in JSP.

**Environment:** Core Java, J2EE 1.3, JSP 1.2, Servlets 2.3, EJB 2.0, Struts 1.1, Hibernate 3.0, Spring 1.0.2, JNDI 1.2, JDBC 2.1, Oracle 8i, UML, DAO, JMS, XML, IBM WebSphere 6.0, MVC Design Pattern, WSAD 5.0, Log4j and JUnit.