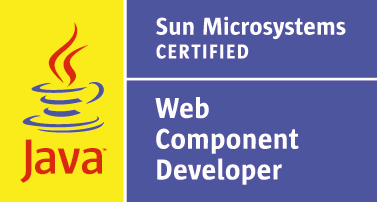
**Kalyan Dass Kairamkonda**



**JAVA/J2EE Developer**

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**Ph: -(660)-541-3672**

**PROESSIONAL SUMMARY:**

* Around 7 **years** of experience in design, analysis, development and maintenance of complex high performance and scalable distributed object-oriented applications in **Java and J2EE.**
* Extensive work experience in all phases of **Software Development Life Cycle** (SDLC) including Requirement Analysis, Design, Coding, Testing and Implementation in **Agile (Scrum)**, **TDD** Environment.
* Knowledge in developing applications using **Agile** and **SCRUM methodologies.**
* Experienced in developing UI Screens using **JSF, JSP, JSTL, Servlets, HTML, XHTML, JavaScript, CSS, JQuery, Angular JS, ReactJS.**
* Expertise in using angular modules like **Angular-animate, Angular-Cookies, Angular-Filter, Angular-Mocks, Angular - Recourse, Angular- Route, Angular-Sanitize, Angular-Touch and Angular-UI-Bootstrap**.
* Experience in using Angular JS **Directives, Components, Filters, services, Templates, Events,** and **Injectors**.
* Expertise in creation of angular custom Directives **Filters** and **Services**.
* Expertise in developing the applications using Core java concepts likes **OOPS**, **Multithreading**, **Garbage Collections** and **Socket Programming** etc.
* Implemented Java 8 features such as **Lambda Expressions**, **Streams**, **Method references** and **Optional class** to reduce the code size and simplify the operations.
* Strong knowledge of Object-Oriented software engineering methodologies, **Object-Oriented** **Analysis** and **Design, Design** by **Contract**, **UML**.
* Extensive experience in developing, testing and implementing applications using **Core Java 1.5, 1.6,1.7,1.8 JEE technologies like Servlets, JSP, Struts v1.x/2.0, EJB 2.0 3.0, Spring MVC, Spring, Hibernate, JDBC, Web-Services using JAX-WS and JAX-RS, JMS, XML, XSLT, DOM, SAX, JAXB, Castor, CSS, AJAX, SOAP, WSDL, JQuery, JavaScript, ANT, Junit.**
* GoodWorkingexperienceinusingdifferentmoduleslikeSpringCoreContainerModule,**SpringApplication ContextModule,SpringMVCFrameworkmodule,SpringAOPModule,SpringORMModuleetc**.in**Spring Framework.**
* ExpertiseinDesignPatternslike**MVC,Singleton,Factory,AbstractFactory,DAO**(DataAccessObject), **Front Controller.**
* ExperienceindesigningUse**Cases,Classdiagrams,Sequence**and**Collaborationdiagrams**for**multi-tiered object-orientedsystemarchitecturesutilizingUnifiedModelingTools(UML)**suchas**RationalRose,Rational Unified Process (RUP).**
* Wellexperiencedin**Socket,Synchronization,Memorymanagement**,and**DistributedSystem Programming, Socket Programming, Swings, Serialization**.
* Excellent knowledge of design patterns (**Singleton, Factory pattern, Flyweight, Decorator, Strategy, DAO, Session Facade and Model View Controller).**
* Expert in deploying applications on application servers like **IBM Web Sphere Application Server**, **WebLogic, JBoss**.
* In-depth knowledge and experience in implementing Service Oriented Architecture (SOA) using XML based **SOAP** and **JSON** based**RESTful** web services.
* Strong working experience on various **Spring Modules** (Spring MVC, DAO, AOP, Spring LDAP) along with **Hibernate** as the back-end **ORM tool** for implementation of persistence layer and mapping of POJOs.
* Strong experience in using **HQL, inheritance, caching strategies, mapping strategies, annotations** with **Hibernate**.
* Extensively worked with **ORM tools** (Hibernate (HQL), JPA, OJB) and **JPA annotations.**
* **Strong experience in creating indices, mappings, writing queries using queryDSL on elastic search.**
* Expertise in various java concepts likes **OOPS, Collections, Multithreading, and Exception Handling.**
* Experience in developing Rest Service using **Jersey framework**.
* Experience of Database design in **Oracle/ DB2/ MySQL/ SQLServer/ Postgre**query based programming and **PL/SQL** procedure programming and proficient in Database programming using **JDBC** and **SQL**.
* Experience in writing database objects like **Stored Procedures, Functions, Triggers, PL/SQL packages and Cursors** for **Oracle, SQL Server, DB2, MySQL**.
* Expertise in using **IDEs** like **Net Beans, Eclipse**, various Configuration Management tools like **CVS, GIT, SVN and IBM Clear Case Version Control.**
* Expertise in using **ANT, Maven** and **Gradle** for building and deploying application on the servers.
* Strong experience with Version Control like **Subversion (SVN), Concurrent Version Systems (CVS), GIT.**
* Expertise in Build processing using **Jenkins, Git and Maven.**
* Highly knowledgeable in **UML**, **Use Cases, Conceptual Models, Collaboration Diagrams, Class Diagrams, Activity** and **Sequence Diagrams**.
* Well Experienced in deploying and configuring applications onto application servers like **Web Sphere, Web logic, JBOSS.**
* Good knowledge in unit test cases like **Jasmine** and Karma.
* Good Knowledge on **MQ, Active MQ** and **IBM MQ.**
* Experience in Object Oriented **Analysis & Design** (OOAD).
* Involved in Updating the On-Call production support document.
* Excellent **analytical** and **communication skills**. Good understanding of **Software as a Service(SaaS).**
* Developed test cases using **Junit, Mockito**and performed peer to peer testing.
* Expertise in using of **HP quality center** and **JIRA** for tracing the bugs
* Capable of meeting tight deadlines with excellent overall **project life cycle experience** and team spirit.
* Ability to work effectively while working as a team member as well as individually.
* Excellent communication and Inter-personal Skills, well organized, goal oriented.

**EDUCATION**:

* Bachelors of Engineering in Computer Science Engineering(CSE)

**TECHNICAL SKILLS**:

|  |  |
| --- | --- |
| **Programming languages and Scripts** | Java 1.5/1.6/1.7/1.8, J2EE 1.4, Java Script, HTML, Angular JS, DHTML, CSS, JSTL, Perl, XML, PL/SQL |
| **Databases** | Oracle 8i/9i/11g, DB2, SQL Server, MS Access, MySQL, JDBC. |
| **J2EE Common Services APIs** | Java Servlet, SWING, JSP, EJB2.0/3.0, JDBC, JPA, Hibernate, Axis, web services, JMS, JNDI, JAXP, JTA, JNDI, JFS 1.1, JAXB, AJAX, JSON |
| **Application Servers** | WebLogic Server(Oracle), JBoss (Redhat) |
| **Web Servers** | Apache Tomcat 4.1.18 |
| **Frameworks / APIs / Tools** | Springs, Struts 1.1/1.2/Tiles, JSF, Log4j, Ant, WEB-SERVICES (SOAP, WSDL, UDDI, Axis2, CXF) |
| **XML** | XSL, DOM, XML Schema, SAX, XSLT and Designing DTDs. |
| **AWS Services** | IAM, EC2, EC2 Container Services/Docker, VPC, Lambda, S3, SQS, API Gateway, Cloud Watch, Elastic Beanstalk |
| **Modeling Tools / Languages** | UML on Rational Rose 4.0. |
| **Web Services** | SOAP, REST, WSDL, UDDI |
| **Version and Source Control** | GIT, CVS, Win CVS, Clear Case, SVN |
| **ORM** | Hibernate4.2, JPA, Eclipse Link |
| **Operating Systems** | Windows 95/98/NT/XP/Vista/7, UNIX, LINUX, Solaris |

**PROJECT EXPERIENCE:**

**Client:- Grainger- LakeForest,IL Oct 2016 to Till Date**

**Role: JAVA/J2EE Developer**

**Responsibilities:**

* Involved in requirements gathering and analysis from the existing system. Captured requirements using Use Cases and Sequence Diagrams.
* Worked as part of**Agile** Software Development Methodology including Scrum technology.
* Managed the Cummins smart Grid lab to evaluate new technology for Cummins Corporation. Responsible for development and testing of **Electronic Grid management** solutions.
* Designed and implemented Integration testing for Electric Operations
* Created new **RESTful** Webservices using **JSON** data format to communicate with all external systems.
* Responsible in developing **Spring Boot Microservices** from scratch.
* Implemented exception handling in Java Spring boot for REST API, by making use of ExceptionHandler and ControllerAdvice annotations.
* Designed Frontend with in object oriented JavaScript Framework like bootstrap, Require.js, Node.js, and Angular.js, React.js
* Created various Spring boot and spring batch applications to connect them to various databases and created queries to retrieve data and modify the tables for the databases.
* Worked and Performed Tuning and Query Optimization in AWS Redshift and microservices.
* Ability to design application on AWS taking advantage of Disaster recovery.
* Configured AWS Identity Access Management (IAM) Group and users for improved login authentication.
* Used **Spring IOC** to maintain loose coupling between layers, published the business layer as services and injected the necessary dependent components.
* Implemented error handling on various **RESTful** services to return the right HTTP status codes and wrote Automation Tests in Java to validate the end to end business functionality for **RESTful** services.
* Implemented Java 8 features such as **Streams**, **Lambda expressions**, **method reference** and **Optional Class** to reduce the code size and simplify the operations.
* Implemented **Executor Service**to create a **thread pool** as part of Java **Concurrency** to achieve asynchronous communication with the messaging service.
* Implemented J2EE standards, **MVC** architecture using **Spring Framework.**
* Involved in the development of project back-end logic layer by using most of the core java features such as **Collection Framework, Interfaces, Multi-Threading and Exception Handling programming**.
* Involved in developing code for obtaining bean references in **Spring framework** using **Dependency Injection** (DI), **Inversion of Control** (IOC).
* Implemented spring service layer with dependency wiring, transaction, DAO and annotations.
* Implemented design patterns such as **Façade, Singleton, Factory, Service Locator** and **DAO**.
* Configured applications using Spring Boot and used **Spring Security** for **authentication** and **authorization purposes**.
* Used Hibernate as persistence framework for **DAO** layer to access the **Oracle11g** database.
* Used **Hibernate** to store the persistence data into **Oracle database** and written **HQL** to access the data from the database and wrote some complex **SQL queries** and was actively involved in creation of database, modified tables, triggers, and store procedures to clean and validate the data to meet the company specifications.
* Used **Hibernate** to invoke **Stored Procedures** and database connectivity to **SQL**.
* Implemented required asynchronous functionalities using **Java Messaging Service**(JMS).
* Used **Log4J** to print info, warning and error data on to the logs.
* Worked with Amazon **AWS EC2**, **RDS** ,**S3 and SQS**as a data store for storing data into the buckets that fall into it. Used EC2 as a Infrastructure as a Service(IAAS) and RDS as Platform as a Service (PAAS).
* Worked with **AWSSQS** for asynchronous communication with applications that are slow.
* Deployed and developed the project using **AWS EC2, S3 Buckets, Data pipeline, Elastic Bean Stalk**, **CloudWatch, AWS Server Migration Service, Lambda, Amazon messaging services (SQS) and Amazon Kinesis Services**.
* Developed **AWS cloud formation** templates and setting up Auto scaling for **EC2** instances and involved in the automated provisioning of AWS cloud environment using **Jenkins**.
* Used **Hibernate** to do the object relational mapping between the tables and java objects.
* Developed web applications using**Eclipse** and deployed in **WebLogic** application server.
* Wrote Test Cases using **JUNIT**and **Mockito** framework.
* Created **indexes**, **stored** and **retrieved** documents in NoSQL database **Elastic search** using **queryDSL .**Performed full text search using **Elastic Search.**
* Participated in Code Reviews for better quality assurance and Debugged the application Module.
* Developed a build pipeline using **Jenkins, GIT, Maven and Docker**.
* Involved in creating **docker** images, pushing them onto **dockerhub** and retrieving them for deployment.
* Managed **MAVEN** environment by setting up local, remote and central repositories with required configuration in maven configuration files.
* Used **MAVEN**for build framework and **Jenkins** for continuous build system.
* Used **GIT** for repository the Project.
* Used **HP Quality center** for Bug tracking in the Project

**Environment**: Java/J2EE,Java8, RESTful Web Services, Spring 3.x, Hibernate, Spring boot 1.2.3, JMS, AWS, Hibernate, JPA, JavaScript, Ajax, Micro Services, AngularJS,ReactJS, JSON, Junit, Mockito, HTML, CSS3, Bootstrap, Weblogic, Apache Maven build tool, PL/SQL, JENKINS, GIT, Quality Center, and Eclipse, AWS EC2, S3, RDS.

**Client:-Bank of America- NYC, NY Feb’2015-Sep’2016**

**Role: Java /J2EE Developer**

**Responsibilities:**

* Worked with **Business Analysts** in requirement gathering.
* Being a Java developer, performed requirement **analysis, Design, development, integration, testing**.
* Responsible for developing the UI pages using **HTML5, CSS3, JavaScript, JSON**, and **AngularJS, AJAX.**
* Developed **cross-browser/platform HTML 4/5, CSS 3,** and **JavaScript** to match design specs for complex page layouts while adhering to code standards.
* Migrated Cassandra cluster from one **AWS** account to another **AWS** account by using Cloud Formation Templates in JSON.
* Developed client side drop down menus, search bars, carousel, and drop down toggles   
  using **Twitter-Bootstrap** and **JQuery**.
* Written**Java script**code for front end validation.
* Worked on custom libraries for business layer using **Object oriented programming**   
  (OOPs).
* Implemented **multi-threading**, **data structures, algorithms, object oriented concepts** and **design patterns**.
* Used **Object Oriented Programming** concepts while developing code.
* Extensive **Object Oriented** **Design Development skills**. Skilled at handling the **MVC** pattern.
* Proven experience coding with the **OOP paradigm**. knowledgeable in Software Engineering Concepts including designing.
* In the backend used **Spring MVC** to validate and process requests, call required business service and return dynamic views to client.
* Implemented the Project structure based on **Spring MVC** pattern using **spring boot.**
* Used Spring Core Annotations for Dependency Injection (Spring DI) and Spring MVC for REST API s and **Spring Boot** for micro-services.
* All the functionality is implemented using **Spring IO / Spring Boot**and **Hibernate ORM.** Implemented Java EE components using **Spring MVC, Spring IOC, Spring transactions** and **Spring security modules.**
* Implemented complex back-end component to get the count in no time against large size MySQL database using Java **Multi-Threading**.
* Built **Microservices** for the delivery of software products across the enterprise.
* Designed and developed **Microservices** business components using **Spring Boot.**
* Designing and implementing scalable, **RESTful and microservices**-based back-end. The back-end is being written in Java using **Spring Boot** for simplicity and scalability.
* Data Access is performed using **Hibernate**.
* Writing **JSP**, **Action Classes, Service classes** and **DAO** using **Hibernate** for Issue management, Administration module.
* Developed the application in Flash Builder and deployed it on **Tomcat application server** proxied through secured http web server. **REST** web services leveraged by both web and mobile applications.
* Deployed and tested the application with web server **Tomcat.** Developed Interactive web pages using **AJAX and JavaScript**. Worked on Report Module, generating PDF/ CSV according to template.
* Configured the WebLogic’s **JMS Server**, created **JMS** connection factories, queues.
* **JMS**is used for communication for sending updates to various other applications and **MDB** for routing priority requests.
* Developed back-end stored procedures and triggers using **PL/SQL**, involved in database objects creation, performance tuning of stored procedures, and query plan.
* Configured and tested the application with database server **SQL**.
* All the Business logic in all the modules is written in **core Java**.
* Used Design patterns such as **Business delegate, Service locator**, **Model View Controller**, **Session façade**, **DAO and DTO.**
* Hands on experience in migrating existing Java application in **AWS** cloud using AWS **SQS** to decouple all the components to make best use of **AWS.**
* Implemented **Ajax** to refresh payment approval updates and to populate most of the credit form fields of the **NETACE** application that were sent as **XML** from backend.
* Worked on **SQL statements** and **Procedures** to do **CRUD** operations with DB
* Used **SQL** Developer to **query, update** and **monitor Oracle database**
* Used **Log4J API** for logging and debugging.
* Developed **UNIX shell** scripts for performing administrative tasks.
* Developed the application using **Agile** methodology.
* Worked on Java Messaging Services **(JMS)** for developing messaging services.
* Worked with **Eclipse** as the **IDE** to **develop, test** and **deploy** the application.
* **GIT** is used for version **control systems** and **source code management**.
* Pro-actively identify, troubleshoot and resolve live **MongoDB** issues.
* Created test cases using **JUNIT** and **Mockito**.
* Configured and set up **JBoss**Server for deployment.
* Used **JIRA** for tracking bugs.
* Used **JENKINS** for continuous integration.

**Environment**: Java/J2EE, Design Pattern, Spring, Hibernate 3.5, JavaScript, RESTful Web Services, AngularJS, JERSEY, JUnit, HTML, CSS3, Bootstrap, MongoDB,Micro Services, JBoss 4.2.3 &Jboss 5.1 EAP,Camel, Ant, PL/SQL, RESTful API, JENKINS, GIT, S, Eclipse, Log4J, JIRA.

**Client:-T Mobile, Bellevue, WA DEC’2013-Jan’2015**

**Role: Java/J2EE Developer**

**Description:-**

T-Mobile US is a major [wireless network operator](https://en.wikipedia.org/wiki/Cellular_network) in the [United States](https://en.wikipedia.org/wiki/United_States). It is the third largest [wireless carrier](https://en.wikipedia.org/wiki/Wireless_carrier) in the United States with 72.6 million customers. It provides wireless voice and data services in the United States. I have implemented different type of Projects which are related to dealers and customer relations.

**Responsibilities:**

* Involved in Object-Oriented software engineering methodologies, **Object-Oriented Analysis** and **Design, Design** by **Contract**, **UML**
* Emphasized on adequate usage **OOPs** principles, **modular** and **reusable components** in **coding**.
* Implemented **multi-threading**, **data structures**, **algorithms, object oriented concepts** and **design patterns**.
* Involved in **business requirement gathering** and **technical specifications**.
* Involved in the **analysis**, **design**, and **development** and **testing phases** of Software Development Lifecycle (SDLC) using **Agile** methodology.
* Involved in Presentation Development using **Spring Framework**.
* Implemented **J2EE** standards, **MVC** architecture using **Spring Framework**.
* Implemented **Spring, JSP** and **Ajax** to design the user interface.
* Implemented and configured various Action classes for handling the client requests using **Spring** framework.
* Developed **Microservices** for different level of layers in flow of network.
* Developed **UML use-case**, **class, object, sequence, collaboration** and **activity diagrams** using **UMLet**.
* Used DependencyInjection feature of**Spring framework** and **O/R mapping tool Hibernate** for rapid development and ease of maintenance.
* Deployed **EJB Components** (EAR) on **WebLogic** Application Server application server.
* Maintained relationship between objects using **SpringIOC**.
* Follow the best practices in coding like removing unnecessary casting, using generics in HashMap, **caching, Collections like sort, comparator, list, set and Design patterns.**
* Maintained relationship between objects using **SpringIOC**.
* Used **Spring MVC framework** for developing the application.
* Involved in the integration of spring for implementing **Dependency Injection (DI/IoC).** Developed code for obtaining bean references in **Spring IOC framework**.
* Primarily focused on the spring components such as **Dispatcher Servlets, Controllers, Model** and **View Objects, View Resolver**.
* Wrote **Web Services** using **REST** for sending and getting data from the external interface.
* Involved in implementing the **JMS** (Java messaging service) for asynchronous communication.
* Involved in using **JMSQueues** and JMS **Topics** for one-to-one and one-to-may communication in the application.
* Deployment of application in **Web** server.
* Hands on experience in resolving issues in the production server.
* Created Stored procedures using **MySQL** for data modification (Using DML insert, update, delete) in Oracle
* Experience in **Core Java** on multithreading, collections and design patterns.
* Interaction with **MySQL** is implemented using **Hibernate**.
* Involved in consuming web services using **JAXWS** development.
* Involved in improving the existing design by minimizing dependencies between the layers with the help of design patterns
* Involved in procedures and functions modifications.
* Configuration of manager role using **Jenkins tool**.
* Worked on **SVNRepository** to store the Project Code
* Used **HP Quality Center** for Bug Tracking in the Project
* Involved in **DB Design** and Application design for Play Back Mock.

**Environment:-** Java/J2EE, Design Pattern, Spring, Hibernate, JavaScript, Ajax, Web Services,MongoDB,JUnit, HTML, CSS, JBoss Application Server, Ant, PL/SQL, RESTful API, JENKINS, SVN, Eclipse, Log4J.

**Client :- FRY’s Electronics- San Jose, CA Jan’2012-Nov’2013**

**Role: JAVA/J2EE Developer**

**Description:-**Designed and Developed Web-based Inventory, Reconciliation application and Loss Prevention System, Inventory/Shipment Reconciliation –Application to import different Shipment methods to the database, validate the freight charges billed on Invoices and freight charges. Created Summary reports based on whether the item in overcharged, undercharged, matched or unmatched items. If overcharged, need to compare the data and calculate the variance. Decide on the criteria why to pay the amount. Any unidentified/disputed item is also recorded.

**Responsibilities: -**

* Created Class diagrams and Use Case diagrams from design spec using Rational Rose. Implementation of **J2EE** Design Patterns like **Singleton, Session Facade, Business Delegate, and Data Access Objects.**
* Actively involved in design of the application architecture in lines of their own Framework based on MVC2 Architecture with **JSP Front End (HTTP Request/Response Integration)** as View, Servlet as Controller and combination of EJBs and Java classes as Model.
* Designed and developed presentation layer using JSP which acts as View in a distributed **MVC architecture**, which involves model components and controller components.
* Used Entity Beans to manage the transactions with the database to deliver the content to the presentation layer and to store the data into the data layer.
* Used **Message Driven Beans** for asynchronous messaging. Used Java Message Service **API** to **create, send, receive,** and **read** messages between application components.
* Developed **Single-Sign-On (SSO)** functionality, through which we can run SCM from Oracle Applications.
* Wrote complex **MySQL** queries and programmed stored procedures, packages and triggers.
* Involved in configuration of **Servlets** and Integration with **JDBC** .
* Extensively used **JDBC concepts** to connect to, retrieve and update information in the database.
* Used **JMS** for sending updates to various other applications.
* Used **Servlets** framework for design and development of web application
* Used **JDBC** for Object Relational Mapping and Persistence.
* **Designed** and **developed business** tier using **EJBs**. Used Session Beans to encapsulate the Business Logic
* Extensively used **Eclipse 3.x** while writing code.
* Developed **XML** and **XSLT** pages to store and present data to the user using parsers.
* Involved in configuration and deployment of application on **WebLogic Application Server**. Used CVS as Version Control System performed Module and Unit Level Testing with JUnit and log4j.
* Used **Apache Ant** for building the application. Gained a good knowledge about browser compatibility issues and their solutions.

**Environment**: Java 1.4/1.5, JSP 2.0, Servlets, JDBC, XML, JavaScript, HTML, XSLT, Jasper Reports, Firebug, Lotus Notes 8.5,Putty, MySQL, CA SCM Harvest, WebSphere Application Server 6.0, RAD 7.0.

**Client:- Home Depot- Atlanta, GA Sep2010-Dec’2011**

**Role: JAVA/J2EE Developer**

**Responsibilities:**

* Involvedintheentireprojectlifecyclefrom**analysis,installation,development,testing,production**and**end user support**
* Developed the **Struts** **Action classes** and **Action Form classes** and configured them in Struts configuration files as part of the **controller component**
* Extensively used WebSphere Studio Application Developer for **building, testing** and **deploying applications**
* To keep track of latest Versions implemented **CVS** Structure
* Designing **JSP** using **Java Beans**
* Worked on **Eclipse & RAD 6.0** environment
* Wrote **SQL** queries for **JDBC** connection to **Oracle database**
* Wrote **SQL commands** and **Stored Procedures** to retrieve data from Oracle database.
* Used embedded **classes** and **maps** to model ternary relationship in **JPA**.
* Created class **diagrams** and **sequence** diagrams using rational rose
* Clear Case is used for **version control.**
* Implemented various **Custom Tags** and **JSTL** tags
* Setting Data sources, **JNDI** Names and worked with cells, nodes and servers during **WAS** 6.1 environment in deployment team
* Adopted **J2EE** best Practice, using **J2EE** Design patterns. **Business Object** and **Data Transfer object** for portability and performance.
* Utilized Design patterns **MVC, VO, DAO, Factory, Singleton**
* Maintained a separate **DAO** layer for **CRUD** operations.
* Used **SVN** for source control repository
* Developed Unit Test Cases with **JUnit**.
* Built test harness module with **JUnit, Mockito** for creating unit tests and integrated with **Ant build.**
* Involved in **Module Testing** and **Integration Testing.**
* Used IBM **RADIDE** for application development.
* Performed Defect Tracking on a regular basis to make sure every defect has traceability back to the source by using tools such as **Clear Quest.**

**Environment**: JAVA, J2EE, JSP, JSTL, JPA, DTO, Core JDK 1.4/1.5, XML, Windows XP/2000, Websphere6.1, RAD 6.0, Oracle 9i/10g, SVN