

**Krishna Reddy**

**Sr. Full StackJava Developer**

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| **PROFESSIONAL SUMMARY:** |

* Oracle Certified Java Professional having 8+ years of strong experience in the IT industry with **Highly Dynamic, Challenging Environment,Diversified Exposure** in **design,development** and **deployment** of **Web-Based** and **Client-Server** business applications.
* Top Quality architecture, Development skills using latest technologies including **JavaScriptUI, J2EE.**
* Has hands on Experience in developing the **Back-End** and **Front-End Security** against vulnerabilities.
* Rich Experience in **Service Oriented Architecture(SOA), Object Oriented Methodologies (OOAD), Aspect Oriented Programming (AOP), Java (JDK1.8), J2EE Design Patterns, Data Modelling.**
* Extensive experience in developing **Scalable, Reliable, Secured** and **Efficient** enterprise applications using **Java EE 5/6 (Servlets4.0, JSP2.2, JDBC4.0, JNDI1.2, JTA, JPA,JSF), Web Services (SOAP, RESTFUL, WSDL, JAX-WS, JAX-RS) and XML (SAX, DOM, JAXP, JAXB), EJB3.2, Thymeleaf, Spring4.x.**
* Well versed in designing presentation layer components using **Struts, Tag Libraries and Struts custom validation rules, Tiles,JSTL, java Script, DHTML and XML/XSL, JSP, HTML5, CSS3, Bootstrap, Angular.js, Angular 2.0, React.js, Node.js, backbone.js**.
* Worked extensively on **Core Java** with Multi-Threading, Collections.
* Developed Rich Internet ApplicationsUsing Spring Framework modules such as **Spring MVC, IOC, AOP, JDBC, JTA, IO, Spring Boot, Spring Web Flow, Spring Security, Spring Batch, Spring Integration, Spring Ribbon, Spring Reactor**,**Spring Eureka**,**Spring Actuator, Spring Zuul Proxy**.
* Experience with Amazon Web Services (AWS) such as **EC2, Cloud Watch,Kinesis,Dynamo DB,SQS,Lambda, API Gateway, ELB, RDS, VPC**, **Route53, Cloud Watch, Cloud Formation, IAM, SNS**.
* Extensively worked on core java concepts like **Multithreading, Inheritance, Abstraction, Encapsulation, Polymorphism, Exception Handling, Collections and Frameworks.**
* Good Exposure to**Apache Kafka,Apache storm**,**Scala, DevOps, Micro-services like Spring-Boot,**
* Experience with **Java8** features like **parallel stream** has and filters through **lambda expressions**.
* Experience with Middleware Technology Messaging Brokers like **JMS, Active MQ, Rabbit MQ.**
* Strong knowledge of design including **J2EE Design Patterns Singleton, MVC, DAO, Composite View, Session Facade,Service Locator** in the development of Multi-Tier distributed Enterprise Applications.
* Proven experience with Application Servers like **JBoss AS7, IBM WebSphere 6.x/5.x/7.0, Oracle/BEA WebLogic9.x/8.x/7.x/6.x and Tomcat 5.x/4.x/3/x**.
* Experience in creating rules using Business Rules Engines: **Drools, ILOG**.
* Strong understanding of Micro services Patterns **Circuit Breaker/Hystrix, Aggregator, Proxy Chaining.**
* Working experience of **Relational Database Management Systems(RDMS)**like **Oracle, SQL Server, MySQL, DB2**and **Non-Relational Databases(NoSQL)**like **MongoDB, Cassandra, CouchDB,Hbase.**
* Hands on experience with version control systems like **SVN, GIT,CVS,Stash, Rational ClearCase**.
* Developing scripts for build, deployment, maintenance, related tasks using **Jenkins, Maven, Python.**
* Extensive experience in **Installation, Configuration, and Migration, Trouble-Shooting of Splunk**.
* Good experience in unit testing using **Karma, Jasmine and Junit4.0, Automated Testing using Java,**

**Selenium (IDE/Webdriver), Integration Testing using Continuum, Selenium, Jenkins.**

* Strong Experience in building J2EE applications using tools such as **ANT, Maven, Gradle**.
* Expertise with employment of **Spring Kafka** and **Zookeeper** apart from JMS as messaging service.
* Worked on back-end services with **Golang**,developed the Golang backend for next version of **adsGO**.
* Used **Continuous delivery / Continuous Integration (CD/CI)** tools **Docker, Jenkins** to deploy the application to **AWS** and used **GIT** for Version Control of code for incremental development.
* Good exposure in interacting with clients and solving application environment issues and can communicate effectively with people at different levels including **stakeholders, internal teams**.

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| **CERTIFICATIONS:** |

* **Oracle Certified Java Programmer**

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| **SKILLS:** |

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| **Java/J2EE Technologies** | Servlets, JSTL, JDBC, JMS, JPA JNDI, RMI, EJB, JFC/Swing, AWT, Java Beans, Applets, Multithreading, Java Networking, Spring data, Spring Boot, Spring framework, Spring JDBC,Hystrix,Reactor,Actuator,Spring Templates, java mail, Google API, Hibernate 4.x/5.x, Web Services,SOAP,RESTFUL |
| **Programming Languages** | Java JDK1.4/1.5/1.6/1.7, 1.8,C++, C, SQL, PL/SQL,Golang,Python |
| **Application/Web Servers:** | Oracle/BEA WebLogic 8.1/9.1, (WAS) IBM WebSphere 5.1/6.0/6.1/7.0, JBoss, Tomcat 5.0.28/6.0, Jetty Server, jerkins, AEM 6.0. |
| **Frameworks** | Struts 2.x/1.x, Spring 3.x, Hibernate 3.x, JSF 1.2/2.0,iBatis,Angular Ionic, RCP |
| **IDEs** | Eclipse 3.x, IBM WebSphere Application Developer 5.x, IBM RAD,STS, IntelliJ IDEA, NetBeans |
| **Web technologies** | JSP, JavaScript, jQuery, AJAX, XML, XSLT, HTML, DHTML, CSS, Bootstrap, Angular.js, Express.js,React.js, Node.js. |
| **Web Services** | JAX-WS, JAX-RPC, JAX-RS, SOAP, WSDL, UDDI,REST |
| **XML Tools** | JAXB, Apache Axis, Altova,XMLSpy |
| **Methodologies** | Agile, Scrum, RUP, TDD, OOAD, SDLC Waterfall model |
| **Modeling Tools** | UML, Rational Rose, Visio |
| **Testing tools** | Junit4.0, JMeter, HtmlUnit, Selenium |
| **Database Servers** | Oracle 8i/9i/10g/11i, DB2, SQL Server 2000/2005/2008, MySQL,Informix and DB2. |
| **Version Control** | CVS, SVN,GIT,Stash, Rational ClearCase |
| **Build Tools** | ANT, Maven, Gradle, Babel, Gulp, Webpack, Grunt |
| **Platforms** | Windows 7/8, UNIX, LINUX |

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| **PROFESSIONAL EXPERIENCE:** |

**Role- Sr. Java/J2EE Full Stack Developer**

**Client- Vanguard,Malvern, PA June 16 - Till date**

Project Description:

Vanguard is one of the world's largest investment companies, offering a large selection of low-cost mutual funds, ETFs, advice, and related services. Whether you are an individual investor or a financial professional, or you represent a corporate or institutional investor, you can benefit from its expertise, stability, and reliable investment approach. It follows the Agile Methodology. PEx Secure Homes, Participant Experience Secure Homes. Customers login to their account and check for their eligibility to enroll in to the plan.

**Responsibilities:**

* Implemented the application using **Agile Development methodology** which included **daily scrum calls, two-week iterations, user story planning,retrospective meetings,code reviews.**
* Developed Dynamic Single Page Application using **Angular2.0,Bootstrap4.0,HTML5,CSS3**.
* Worked extensively on **Components, Directives, Services, Forms, Http Access, Authentication, optimizing** an internal application using **Angular 2**with Modules and Offline Compilation.
* Written**Reactive Programming (RXJS)** type of programming using rxjs observables and rxjs opertaors like map and filter.
* Implemented features such **as routing, data binding** without a page refresh using **Angular 2**.
* Used **Angular 2 Http services** for asynchronous validations for the input fields of the forms.
* Created various **Angular2 services, modules, attribute directives**,**template**, **data driven forms**.
* Worked on setting up the routing configuration using **Angular 2** UI router for various views.
* Used **Angular-cli** with **webpack** to perform builds, create**production ready code** for deployment.
* Created **Typescript**reusable components and services to consume REST API's using **Angular2**.
* Designed and implemented application using **Spring Boot, Spring MVC, Spring IOC, Spring Annotations, Spring AOP, Spring Transactions and Spring JDBC**.
* Created microservice to provide **RESTful API**using Spring MVC and SpringBoot.
* Extensively used **Core Java** such as Exceptions and Collections.
* Developed application using **Core Java** concepts and maintained concurrency with Multithreading.
* Developed Service classes, DAO classes as per the design and developed code for business logics using **CORE JAVA**.
* Developed **Restful Web Services (JAX-RS)** using **Jersey API.**
* Designed and developed Application based on **Spring**framework using MVC design patterns and implemented the business logic using **Spring Boot, Restful API, Spring Data**
* Worked on **Spring Boot Actuator**to expose data through different technologies like **HTTP(endpoints),JMX, SSH** and **/health** endpoint to show the health of the application.
* Developed notification service for **J2EE** application using **Spring Reactor**for asynchronous handling of a large volume concurrent service requests coming from multiple service handlers.
* Worked on **Spring Cloud Netflix**for OSS integrations, autoconfiguration of Spring Boot app.
* Implemented fail safe and **Circuit Breaker Patterns** in **Spring Boot** Micro Service applications using **Hystrix** and monitored the services using **Hystrix** Dashboard.
* Implemented client-side load balancing for **microservice** app, servers using **Netflix Ribbon**.
* Built a hypermedia-driven, implemented connectors between **Hateoas** and **Spring REST** services.
* Implemented the **Authentication, Authorization, Access-control features,Clickjacking, Cross site request forgery** by using **Spring Security, Spring Data**and **OAuth**.
* Implemented Java and J2EE Design patterns like **Business Delegate, (DTO), Data Access Object.**
* Worked on **Spring Cloud** like **Spring Eureka, Cloud Foundry** for **Routing, Service-to-Service calls**.
* Worked on **Spring Quartz,Spring Data** functionality for scheduling tasks such as generating monthly reports for customers and sending them mails about different policies.
* Designed and developed **MicroServices** business components using **Spring Boot.**
* Hands on Coding to build **REST MicroServices** using**Spring Cloud, Spring Config, Cloud Foundry**.
* Extensively worked on **Hibernate mappings, HQL, Query, Lazy loading Transactions and Locking.**
* Experience in **Hibernate5.0.2** which includes integrating legacy databases, writing custom **CRUD statements**, integrating stored procedures, functions, performed polymorphic associations.
* Developed Sterling s search tool using SOLR Tikka as NoSql store with **Spring Data.**
* Built Spring based Java and Scala **Microservices** to support Enterprise Web application.
* Worked on **Hibernate Relational** mappings like **One-To- Many, Many-To- Many, Many-To-One.**
* Developed J2EE Applications using **Rule Engines-Jboss, Drools4.x, Work flows, Human tasks** to implement Business rules validations and provided Drools Dashboard for Business users.
* Created tables and worked on **SQL** and **PL/SQL** to write **Stored Procedures functions**, Packages for complex Inserts and updates in the database.
* Wrote **SQL queries** to get the data, connect database in the **DAO** implementation classes.
* Performed **configuration**, **deployment** and **support** of cloud services including **AWS**.
* Configured **AWS Identity** and **IAM Groups** and Users for improved login authentication.
* Developed API for using **AWS Lambda** to manage the servers and run the code in the **AWS**.
* Developed queues using **AWS SQS** with **JMS** for services to subscribe and listen events.
* Worked on creating the **Docker Containers,** **Consoles** for managing the application life cycle.
* Created private cloud using **Kubernetes** that supports **development, test and production** environments.
* Setup the **CI** and **Continuous Development(CD) process** for the application using the **Jenkins,Maven**.
* Used **Postman, Rest Client, Spring Mock MVC, Spring 4Junit** for testing the web services.
* Used **JIRA** tool for tracking stories progress, follow agile methodology and sprint planning.
* Used **GitHub** to maintain the version of the files and took the responsibility to do the code merges.

**Environment:**

**Java8,Spring MVC, Angular 2.0,Bootstrap4.0,HTML5, CSS3,SpringAOP, IOC,Eureka, Quartz, Reactor,**

**Hateoas,Netflix, Spring Data, Cloud Foundry, RESTful, Maven, REST API,Hibernate5.0.2, REST Webservice,**

**Drools,SQL, JBOSS AS7,Docker,KubernetesOracle12c, GIT,Log4j,Reactive Programming (RXJS)** **.**

**Role- Sr. Java/ J2EE Full Stack Developer APR 15 – May 16**

**Client- Monsanto - St. Louis, MO**

Project Description:

The goal of MSIS is to provide a one-stop reporting system for Field Personnel and all other key users of Seed, Chem, Corn States, KPI, as well as Retailer and Grower Business Plans data. As new needs are identified, MSIS continues to provide a central home for sales reporting and related information capture. MSIS handles data over the whole US, that has been divided into different regions, teams and territories. MSIS provides various reports to handle the large set of data efficiently. MSIS also interacts with external systems using SOA architecture to collect information

**Responsibilities:**

* Involved in the **Analysis, Design, Coding, Modification and Implementation** of user requirements in the online banking automation application.
* Used **React.js** to create Controllers to handle events triggered by clients,send request to server.
* Used **React.js** to create views to hook up models to the **DOM**,synchronize data with server.
* Used **React-Redux** hunk as middleware to handle asynchronous actions,to make **REST API** calls.

Web application development for backend system using Node.js.

* Worked with **Node.js** to develop **RESTful API’s** consumed in front end applications.
* Implemented MVVM architecture using **Redux** Architecture with **React JS.**
* Worked extensively on developing controllers, Interfaces and implementation classes using **SpringMVC** framework, **Micro service architecture** with **Spring Boot** based service through REST.
* Extensively worked on **Spring bean wiring**, **Spring DAO**, **Spring AOP** modules.
* Utilized **Java 8** features like Lambda expressions for collection evaluation and comparing the data, Stream API

for Bulk data operations on Collections which would increase the performance of the Application, Parallel

operations on collections for effective sorting mechanisms and to change the sequential stream flow of threads

while session establishment.

Developed service classes, DAOs classes as per the design and developed code for business logics using **CORE JAVA** and **Data Structures**.

* Implemented a **Role-Based Security System** for web-based administrative applications.
* Implemented **Spring AOP** to reduce the development time to handle the exceptions.
* Used the **Spring Quartz** process to invoke the batch jobs for summarize the pools.
* Worked and configured **Mongo DB using Spring -JPA and Spring Data** to store hierarchical data.
* Used **Apache camel** to integrate the different applications using protocols like **http, ActiveMQ.**
* Worked with Web services components **JAX-RS** services and worked with **Restful** Web services.
* Implemented **Microservice**s governance layer (**Eureka, Zuul, Auth Server, AML**).
* Worked on **JMS**like **RabbitMQ, Active MQ**and used **JERSEY** framework to implement the **JAX- RS**.
* Scaled the component interactions and generalized the interfaces using **Restful web service**.
* Implemented a Continuous Delivery pipeline with **Docker, Jenkins, GitHub** and **AWS.**
* Maintained, structured, and surveyed documents within the **NoSQL MongoDB** database,ensuring **data integrity, correcting anomalies**, **increasing** overall maintainability ofthe database.
* Composed and executed **MongoDB** scripts to insert and update **NoSQL** database,automating data changes and reporting and Managing, maintaining **NoSQL**databases in production domain.
* Experience and ability to Assessment, evaluate **Design, Code, build** /deployments relating to **Microservices**.
* Used **Log4j** for tracking errors, debugging the code, resolved bugs, Change Requests to code.
* Working with Java libraries to access **AWS** facilities as Simple Storage Service.
* Experience on AWS cloud services **like EC2, S3, RDS, ELB, EBS, VPC, Route53, Auto scaling groups**, **Cloud watch, Cloud Front, IAM** for installing configuring and troubleshooting on various

Amazon images for server migration from physical into cloud**.**

* Worked with java libraries to access **AWS** facilities **as Simple Storage service, Simple queue**.
* Hosted and tested the application in **AWS** servers before publishing it in actual production
* Used **Git** for version control and **JIRA** for bug Tracking and Project Management.
* Involved in build **process**, **modifying** the Gradle files and compiling, packaging the **WAR** file.
* Coordinated with **QA team** for development of test plan, test cases, test code and responsible for defects allocation and resolution of those defects using **Selenium.**

**Environment:**  
**Java8, Eclipse Mars, React.js, Redux, Spring MVC, Spring Security,Spring Data** **, Javascript, AOP,IOC, Eureka, Zuul,MongoDBActive MQ, JMS,Apache camel, MongoDB, JBoss, JAX-RS, Jersey, Spring security, Microservices, NOSQL, Log4j, Selenium, Spring DAO, REST API, JMS, Oracle 11g, JMS, Drools,AWS S3, REDIS, EC2, VPC, Route53, ELB.**

**Role- Sr. Java/ J2EE & Full Stack Developer JAN 14 – MAR 15**

**Client- Papa John's International - Louisville, KY**

**Description:**

Papa John's International has a backoffice application which they were moving out of store and it can be accessible over the web from outside. I have worked on front end development of Self-Service tool which provide a way for the field operator to manage or adjust in-store POS system settings and properties by accessing this application and not required the user to be physically in the store.

**Responsibilities:**

* Developed the **J2EE** application based on the **Service Oriented Architecture.**
* Developed application using new features of **Java 1.7** Annotations, Generics, enhanced for loops.
* Used **spring** and **Hibernate** for implementing **IOC**, **AOP** and **ORM** for back end tiers.
* Created user-friendly GUI interface and Web pages using **HTML, Angular JS, JQuery.**
* Implemented presentation of webpages using CSS 3.0, **Adobe Flash and JQuery plugins**.
* Used **AngularJS** to create views to hook up models to the DOM and synchronize data with server.
* Used Bootstrap and **Angular.js&Express.js**to create Controllers to handle events.
* Developed various generic **JavaScript** functions used for validations.
* Handled **Java multithreading** part in back-end component, one thread will be running for each user.
* Used **Spring Inheritance** to develop beans from already developed parent beans.
* Worked on **Spring Quartz** functionality for scheduling tasks such as generating monthly reports for customers and sending those mails about different policies.
* ImplementedJava APIfor retrieval and analysis on No-SQL database like **Cassandra**.
* Developed Service Layer Using **Spring, AspectJ and persistence layer using Hibernate**.
* Used **Hibernate Transaction Management, Hibernate Batch Transactions, and cache concept**s.
* Modified the Spring Controllers and Services classes to support the introduction of spring.
* Working with Java libraries to access **AWS** facilities as Simple Storage Service.
* Worked with Web services components **JAX-RS** services and worked with **Restful Web services**.
* Used **Maven** and **Jenkins** to automate the build and deploy process and SVN was used for PM.
* Instrumental in implementation and deployment of a Multi-tenant software as a service(SaaS).
* Focused on **Test Driven Development (TDD)** thereby creating detailed JUnit tests for every single

piece of functionality before actually writing the functionality.

* **Smoke Test and Acceptance Testing** with Selenium in multiple Java platforms. Familiar with Cucumber, Selenium Web Driver, Selenium commands and x-path.
* Support CI/CD Tools **integration, operations/change management**, and **Maintenance**, Support full Automation

of CI Testing.

**Environment:**

**J2EE, Spring framework, Spring MVC, Spring IOC, Spring AOP,Spring Security, Spring Quartz,Hibernate 3.x, Angular.js, Express.js, CSS, AJAX, Javascript, jQuery, JSON, JSF, AWS, Servlets 2.3, JDBC, AJAX, TDD, Jenkins, Multi- Threading, Web services, SOAP, XML, Microservices, Cassandra SaaS, JAX-RS, REST API.**

**Role- Sr. Java/ J2EE Developer JUN 12 – DEC 13**

**Client- Edward Jones - St. Louis, MO**

**Description:**

HHT tool is an intra-firm operated tool used by these BOA's and FA's which is used to transfer the assets between the representatives. There are a multiple plans into which the clients were tied to based on their respective unique category. HHT tool allows the users to maintain, change, organize and transfer these plans, assets and households.

**Responsibilities:**

* Generated Use case diagrams, Class diagrams, and Sequence diagrams using **Rational Rose.**
* The application is designed using **J2EE design patterns** and technologies based on **MVC.**
* Used **J2EEdesign** patterns like Value Object Pattern, S**ession façade, Singleton, Factory** and **DAO**.**Spring with Tiles Framework** is implemented for a common look.
* Integrated struts MVC with **spring DI and Spring hibernate DAO**
* **EJB** Session Beans were used to process requests from the user interface and CMP entity beans were used to interact with the persistence layer.
* Developed to provide **RESTful** API utilizing Spring Boot with Spring MVC.
* Developed **EJB MDB’s** and message Queue’s using **JMS** technology.
* Implemented security for different front-end views based on the access privileges.
* Involved in writing **XML** validation classes using Struts validation framework.
* Designed the user interfaces using **JSPs, AJAX** and **Struts Tags**.
* Taken care of **multithreading** in back end java beans.
* Used NoSQL database **CouchDB** for having high efficiency and good response for the request.
* Used **XML Web Services** using **SOAP & MicroServices** to register agents.
* Used **RAD IDE** based on **Eclipse** for writing code for **JSP, Action Classes, Struts.**
* Involved in writing **DAO, DTO’s** using Hibernate DAO Support.
* Implemented persistence layer using **Hibernate** that uses the POJOs (which do not have the business processes) to represent the persistence database tuples.
* Used **IBM WebSphere** Application Server to deploy the application as like **WAS LIBERTY**.
* Unit tested the changes based on **TDD** and performed the code review.
* Used **SVN** for version control of the application.
* Used **Log4J** to capture the log that includes runtime exceptions.
* Developed the **ANT** scripts for preparing **WAR** files used to deploy J2EE components.

**Environment:**

**Core Java, J2EE, JSP, Struts, Spring, SOA, MicroServices, Javascript,** OOAD,SOAP, TDD, JMS, REST,**Oracle 9i, HTML,** EJB3, AJAX, JMS, XML, Design Patterns, **ANT, Rationale Rose, Multi- Threading, IBM RAD IDE, IBM WebSphere Application Server 6.1(WAS LIBERTY), Hibernate 3.0, LOG4J, SVN, TOAD,** JUNIT, UML, **REST API**.

**Role- Java/ J2EE Developer Nov 09 – MAY 12**

**Client- REGIONS BANK - Birmingham, AL**

**Responsibilities:**

* Involved in requirements **gathering, analysis, implementation** and **setting** up the developmentenvironment.
* Participated in designing the user interface for the application using **HTML, DHTML,** and **JSP**.
* Developed screens using **JSP, JavaScript, and HTML**.
* Coded complicate Java programs based on design documents in the form of UML class diagrams.
* Used Callable objects for implementing **multithreading** for parallel execution of events.
* Configured session timeout with **Spring Boot** in server side and implemented auto logout.
* Experienced in integrating different applications using JMS, WebSphere MQ connectorand Mule ESB.
* Automate build process by writing **ANT** build scripts and configured, customized logs using Log4J.
* Followed **Agile-Sprint methodology** in delivering the work.
* Worked with teams where requirements are implemented, tested and improved.

**Environment:**

**Flex, EJB, Struts, spring, JSP1.2, Servlets2.1,Jasper reports, HTML, CSS JMS, IBM MQ, XML, SOAP, UDDI, WSDL, JDBC, JavaScript, XSLT, XML, UML, HTML, JNDI, Rational Rose 98, Hbase IBM WebSphere 6.0(WAS), Clear Case, Log4J, ANT, JUnit, IBM RAD, and Apache Tomcat.**

**Java Developer November 2008–October 2009**

**GalaxE Solutions - Hyderabad, TG, IN**

**Responsibilities:**

* Involved in the **Requirements collection & Analysis** from the business team.
* Created user-friendly GUI interface and Web pages using **HTML, CSS,Struts,JSP.**
* Created the design documents with **use case diagram, class diagrams, sequence diagrams** using **Rational Rose.**
* Implemented **Action Classes** and **Server-side validations** for account activity, payment history and Transactions.
* Used **XMLWeb Services** using **SOAP** to transfer the amount to transfer application that is remote and global to different financial institutions.
* Used **JMS** for reliable and asynchronous exchange of important information such as payment status report.
* Worked on **database packages, procedures PL/SQL** to code the background processes involved in application.
* Developed **Ant scripts** and developed builds using **Apache ANT.**
* Used **Log4J** to capture the log that includes runtime exceptions.
* Used Clear **Case** for **source code maintenance**.

**Environment:**

**J2EE, Java, Struts, Tiles, HTML, CSS, JSP, JNDI,javascript, Clear Case, SOAP, WSDL, UDDI, JAXB, JAXP, Schema (XST), EJB 2.0, ANT, JavaScript, JMS, Rational Rose, WSAD, DB 2,Apache Tomcat.**