**Harish**

**Java Full Stack Developer**

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Professional Summary

* Over 8 years of IT Professional experience in all phases of software development life cycle to requirements gathering **Analysis, Design, Development, Maintenance** and **Implementation** of enterprise, web and client server applications using **JAVA/J2EE** technologies.
* Experience in developing applications using **waterfall, RUP and Agile (XP and Scrum), Test First, Test Driven methodologies** and good understanding of Service orientation architecture.
* Expertise in designing and developing applications using **Java**, **J2EE** Technologies like **Servlets, JSP, EJB, JDBC, XML, JMS, AJAX, Web Services** using **SOAP** and **RESTful Services.**
* Expertise in developing application components using frameworks like **Spring, Hibernate, Struts, JSF, Messaging Middle-ware** using **JMS.**
* Experienced with various modules in Spring framework like **Spring Boot**, **Spring Security**, **Spring Data**, **Spring Cloud**, **Spring Ioc**, **Spring Dao**, **Spring AOP** and **Spring Batch**
* Expertise in developing inter-operable Web Services and its related technologies like **SOAP, WSDL, UDDI, XML related technologies/tools** such as **JAXB, XSD, XML** with good understandingof **JAX-WS, JAX-RS, JAX-RPC** inter-operable issues
* Expertise in implementing **MicroServices** Architecture using Boot Application, Eureka Discovery Service, Eureka Client, Netflix Eureka, Eureka Instance, REST, SOAP, JPA, Hibernate.
* Expertise in deploying, configuring and administering application servers such as **JBoss, WebSphere, Web logic** and **Apache Tomcat Server**
* Experienced in Web designing & development, using **HTML5, CSS3, JavaScript, XML, Angular JS,** **Angular 2.0**, **jQuery,Bootstrap, JSP, JSON, JSF** and **AJAX.**
* Experienced in **Mean Stack** (Mongo DB, Express JS, Angular JS, Node JS).
* Solid working experience on **XML** parsing using **SAX, DOM** and **JAXB** parsers
* Expertise in development, deployment and troubleshooting Web based and enterprise based applications on **Windows, UNIX** and **Linux** platforms
* Expertise on different IDEs such as **Eclipse, NetBeans** and deployment using Application Servers **Apache Tomcat, BEA WebLogic and JBoss**
* Experience in **SQL, PL/SQL** to write **Stored Procedures**, **Functions**, **Triggers**, **Views** and strong experience in **RDBMS** using **Oracle**, **SQL Server**, **DB2** and **MySQL**.
* Experienced in Non Relational Databases **MongoDB, Cassandra**.
* Expertise in using various configuration management tools like **SVN, CVS, GIT.**
* Expertise in developing unit testing frameworks using **JUnit**, **Mockitos**, DB **Unit** based on test first or test driven methodology.
* Hands on experience with an in-depth level of understanding in the strategy and practical implementation of **AWS** cloud-specific technologies like Elastic Compute Cloud (EC2), Simple Storage Services (S3), Route 53, CloudFormation, Elastic IPs, RDS.
* Developed, Tested and Deployed applications on **Windows** and **UNIX** platforms.
* Strong understanding of **Object Oriented Analysis and Design** **(OOAD)** Concepts with excellent logical and analytical skills focused towards business needs.
* Experience with **UNIX** environment through deployment and performance testing of various modules
* Expert in creating automation scripts using shell scripting to reduce manual efforts
* Good Knowledge on **CI/CD** tool sets such as **Jenkins**, **JIRA**, **ANT**, **Maven**, **GIT**, and **BitBucket**.
* Good Knowledge in **Core Java, Multithreading, Generics, Collections framework** and **Design Patterns.**
* Strong analytical and programming skills with effective Communication skills Willingness and Ability to learn and implement new technologies wherever necessary.

**Technical Skills:**

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| **Web Technologies** | HTML5, CSS3, JavaScript, AJAX, XHTML, Angular Js, Angular 2,Bootstrap, Node JS, Express JS |
| **Web Services** | JX-RS (REST), JAX-WS (SOAP), Jersy, AWS, Apache CFX, Axis 2. |
| **Workflow & Delivery** | Responsive Web Design, Mobile Development,MicroServices, Single Page App |
| **JavaScript Library** | Jquery |
| **Programming Languages** | Java |
| **Java Technologies** | Core Java 8, J2EE, JDBC, JPA, XMLParsers, JSP, Servlets, Portals, EJB 3.X, JMS, JavaBeans. |
| **XML technologies** | XML, SAX, DOM, XSL, XSLT, XPath, WSDL, WADL. |
| **Frameworks** | Struts 1.x/2.x, JSF2.X, Hibernate 3.x,/4.x Spring 2.x/3.x/4.x. |
| **Servers** | IBM Web Sphere 6.x/5.x, Apache Tomcat 5/6/7/8, JBOSS 4.x/3.x,WebLogic. |
| **Databases** | SQL Server 2012, 2014. Oracle 11g, MySQL 5.1,MongoDB**,** Cassandra |
| **Build Tools** | ANT, Maven, Jenkins, Gradle. |
| **Oper ating Systems** | Windows (7, 8,10), Mac (10.1-10.7), Linux, Solaris |
| **IDE** | SublimeText2, Notepad++ and Eclipse, Visual studios, Net Beans, RAD, Spring Tool Suite (STS). |
| **Version Controllers** | SVN, CVS, GIT |

**Professional Experience**

**Client**: Verizon Wireless-Alpharetta, Georgia

**Role**: Sr. Java Full Stack Developer **Duration**: January 2017 - Present

**Responsibilities:**

* Extensively participated in the Analysis, System study and Designing of the project.
* Participated in **Scrum** meetings and project planning and coordinated the status sessions
* Developed front-end content using **HTML5, CSS3, Bootstrap, Ajax, Angular 2** and client side validations using JavaScript.
* Created **Typescript** reusable components and services to consume REST API's using Component based architecture provided by **Angular** **2**.
* Implemented Angular **Router** to enable navigation from one view to the next as user performs application tasks.
* Implemented **HTTP** requests using **Rxjs** Observable library to handle multiple values over time.
* Involved in the development using Java/J2EE Technologies, Web services, **Hibernate** ORM Framework.
* Implemented **Microservice** **Architecture**, with **Spring** **Boot**-based services interacting through a combination of **REST**.
* Implemented Producer-Subscriber model using **RabbitMQ** to handle backend Asynchronous calls.
* Involved in creating **MongoDB**, collections and documents and developed Mongoose Schema objects to perform CRUD operations.
* Implemented Micro services Registration and Discovery with **Spring Cloud** and **Netflix's Eureka.**
* Implemented **RestTemplate**, **SpringMock MVC** for Integrations tests &Mockito to mock the dependencies.
* Developed **REST** service documentation using **Swagger** UI and developed test cases using Junit and Mockito.
* Developed **Hibernate** mappings, model objects, HQL, Query, Criteria, Lazy loading Transactions and Locking.
* Implemented application using **Spring IOC, Spring MVC, Spring Batch**, handled security using **Spring** **Security**.
* Developed **Hibernate** with **Spring** Integration as the data abstraction to interact with the database.
* For Distributed Logging purose used **Spring Cloud Sleuth** for Tracer&span Id generator.
* Used Pivotal App Manager to handle **blue-green deployment**.
* Created **Docker** images and ran the Docker containers in various environments
* Implemented Dependency Injection using **Core Spring** Framework.
* Configured and used **Log4**J for logging all the debugging and error information.
* Written unit test scripts for controllers, filters and services using **karma, Jasmine**.
* Deployed Microservices/Cloud Native App's in Pivotal Cloud Foundry (Paas) and **AWS**.
* Implemented and maintained monitoring and alerting of production and corporate servers such as EC2 and storage such as S3 buckets using **AWS**.
* Created Amazon ElastiCache nodes, shards and clusters in **AmazonElasticCache** deployment.
* Worked with project management tools like **JIRA** and worked in cloud computing environment.

**Environment**:

Java 1.8, HTML5, CSS3, JavaScript,Bootstrap**,** AJAX,JSON, Angular 2, Typescript ,Spring (MVC, Security, Batch, Boot, Cloud), JPA, Hibernate 4.0, REST, SOAP, Apache CXF, MicroServices,Oracle 11g, Log4J, JUnit, APIGEE Security, Rabbit MQ, Spring Cloud Sleuth, MongoDB ,Maven 3.4, Git 1.8, Jenkins, SQL, Oracle SQL Developer, Windows 7,STS (Spring Tool Suite), Splunk, Hystrix, Ribbon, Zuul,Pivotal Cloud Foundry 1.7/1.9,Pivotal App Manger(PaaS), Pivotal Autoscaler,AWS, Pivotal CF Router, App Dynamics, Swagger-UI, Postman, SOAP UI.

**Client**: Deutsche Bank**-**Cary**,** NC

**Role:** Java Full Stack Developer **Duration:** October 2015 - December2016

**Responsibilities:**

* Involved in Requirement gathering, Conceptual design, Analysis, Detail design, Development, System Testing, and User Acceptance.
* Extensively used **Scrum Programming concept** which is part of Agile methodologies to plan work for every iteration and used continuous integration tool to make the build passes before deploying the code to other environments.
* Skilled in using **Jira - Atlassian Agile** Development software to meet the Sprint goals.
* Developed the J2EE application based on the **Service Oriented Architecture (SOA).**
* Responsible for building, maintaining and enhancing the Client/Server application using J2EE standard open-source framework **Spring MVC, Hibernate** and **Oracle as Back-end.**
* Developed front-end content using **HTML5, CSS3, Bootstrap**, **Angular Js**.
* Implemented latest **HTML5** and **CSS3** features like creating various effects, shading, 2D 3D animation, Shapes, Handling multimedia files and many others.
* Implemented Single Page Application (SPA) Pattern and used **Angular Js** to build a cross-browser application.
* Developed scalable applications using the **MEAN** (Mongo-DB + Express.JS+ Angular JS + NodeJS)
* Developed **REST** services using **Node-JS,** **Express-JS**, Body-Parser, Mongoose, Underscore-JS and other node modules to serve the web application with JSON data.
* Implemented best Search Engine Optimization (SEO) techniques for designing webpages to validate the Https request and response of the **REST API** using Postman which are generated by the node.js and express.js.
* Created various **Mongo-DB** collections and wrote services to store and retrieve user data from the application
* Implemented core features of **Angular Js** framework such as Dependency Injection, Data-Binding, Filters, Directives, Templates Services and Deep Linking.
* Used **AJAX** to get the data from the server asynchronously by using JSON/XML object and Jackson API.
* Developed **angular JS** based user interface and consumed RESTful services using AJax calls.
* Developed **angular JS** controllers, services and interacted with RESTservices using $resource.
* Involved in implementation of enterprise integration with web services and legacy systems using **REST**.
* Developed **Rest** Web Services to produce application business services at Web layer level.
* Used **Java Messaging Services (JMS)** for reliable and asynchronous exchange of important information such as payment status report on IBM WebSphere MQ messaging system.
* **Microservices** has been built using Spring boot, Spring security and deployed to AWS cloud.
* Implemented **Multi-Threading concept** to pull data concurrently from multiple resources inorder to generate PDF file in a timely manner.
* Developed the application using **Spring** Framework that leverages the classical (Model-View-ControllerMVC) architecture.
* Designed, built, and deployed a multitude applications utilizing almost all of the **AWS** stack (Including EC2, R53, S3, RDS, DynamoDB, SQS, IAM, and EMR), focusing on high-availability, fault tolerance, and auto-scaling.
* Analyze **AWS** solutions to meet the application specific needs and discuss the same with business, get approvals.
* Automation of various administrative tasks using **AWS** Lambda services.
* Working on performance and cost efficient solutions in **AWS** cloud to suit application specific needs
* Implemented features like logging, user session validation using **Spring-AOP** module andSpring security framework for authentication and authorization of the application.
* Used **Spring Core** for dependency injection/Inversion of control (IOC) and implemented using Spring Annotations.
* Secured the **REST** services using **Spring Security** and OAUTH framework.
* Designed and developed various **Oracle** database Simple and Complex Queries, PL/SQL procedures, Stored Procedures, Trigger and Functions
* Used **Spring Batch** for scheduling and maintenance of batch jobs.
* **JMS** was used to send/receive Asynchronous data from various message brokers.
* Used **Hibernate** as Object Relational Mapping (ORM) tool for back-end data Persistency.
* Extensively used **Hibernate Query Language (HQL)** for data retrieval from the database and managed the transactions using the Spring Hibernate Transaction Management.
* Developed **Maven** scripts for various tasks to automate the build process and for the deployment of the application in **Web** **Sphere** server by generating WAR and EAR files.
* Implemented unit test cases using **JUnit & Jasmine** and used **Jenkins** for Continous Integration and Continous Development.

**Environment**:

Java 1.7, HTML5, CSS3, JavaScript, Node JS, Express JS ,AJAX, JSON, Angular JS, Spring (MVC, Security, Batch, Boot), AWS, Mongo-DB ,Hibernate 4.0, REST, SOAP, Apache CXF, Apache Camel, Derby Database 10.5, Oracle 11g, Log4J, JUnit,IBM Web Sphere MQ, JNDI, Maven 3.2, Stash, Tortoise Git 1.8, Jenkins, SourceTree 1.6, JDK Migrator 1.0, SQL, UNIX, Oracle SQL Developer, Windows 7, Eclipse IDE 7.0.

**Client**: Guardian Life Insurance Company-Manhattan, NY

**Role:**  Java Full Stack Developer **Duration:** December 14 – October 15

**Responsibilities:**

* Involved in deployment of full Software Development Life Cycle (SDLC) of the tracking systems Requirement gathering, Conceptual design, Analysis, Detail design, Development, System Testing, and User Acceptance.
* Developed UI components using **Angular JS, Node JS, JavaScript, JSP, and Html tags, CSS, Ajax** and **JQuery**.
* Developed **CSS3** style sheets to give gradient effects. Developed **page layouts, navigation** and **icons**.
* Participated in making Responsive Web Designs using **Media Queries** and **Twitter Bootstrap**.
* Used **Agile methodology** and effectively took part in Scrum gatherings to deliver quality deliverables within time (extensively used ScrumDo for project Management).
* Designed and developed all the user interfaces using **JSP, Servlets** and **spring** framework.
* Developed the **DAO** layer using Hibernate and used caching system for real time performance.
* Designed and developed various modules of the application with J2EE design architecture, **Spring MVC** architecture using **IOC**, **AOP** concepts.
* Created POC for **Spring Batch** for running batch jobs.
* Used **Spring IOC** for dependency injection and Spring AOP for cross cutting concerns like logging, security, transaction management.
* Implemented **Spring-Security** for authentication process against LDAP, J2EE pre-authentication, and Database.
* Responsible for implementing **SSO** for user authentication and for security purpose of customers.
* Implemented **SAML** to achieve the security features for SSO.
* Involved in developing **GUI** screens using GWT EXT for Rule Modules.
* Developed WebService provider methods (bottom up approach) using **WSDL** and **RESTful** for transferring data between the Applications.
* Configured **Java Messaging Services (JMS)** on Web Sphere Server using Eclipse IDE.
* Used **AJAX** for developing asynchronous web applications on client side.
* Designed various applications using Multi-Threading concepts, mostly used to perform time consuming tasks in the background.
* Wrote **JSP& Servlets** classes to generate dynamic HTML pages.
* Used **Cloudwatch** services for monitoring the server performance, CPU Utilization, disk usage.
* Implemented **Apache Camel** routes using Camel-Spring XML and Camel-Spring processor beans.
* Implemented agent-server messaging dialog using Apache Camel & JMS - Active MQ implementation.
* Involved in fixing bugs and unit testing with test cases using **JUnit** framework.
* Used Maven 3.1 for create the project archetype and build the interface modules for customizing WAR and EAR files.
* Created **EC2, S3, SQS, Lambda instances** using cloud formation Templates on **AWS**
* Creating **S3** buckets and managing policies for **S3** buckets and Utilized **S3** bucket and Glacier for storage and backup on **AWS**.
* Developed Spring, Elastic search and **AWS** S3 integration for the entire system.
* Created **EC2** instances using cloud formation Templates on **AWS.**
* Involved in developing the Validations across the application using JQuery Validator plug in.
* **JMS** was used to send/receive Asynchronous data from various message brokers.
* Used **Spring ORM** module for integration with Hibernate for persistence layer
* Developed Session Beans and Entity Beans (JPA).
* Involved in writing **Hibernate Query Language (HQL)** for persistence layer.
* Uses **Second Level Cache** to enhance performance and Proper Memory Management.
* Involved in development of Reports using **Oracle Report** tool.
* Involved in the development of distributed server side components and deployed the various **Session** and **Entity Bean** Components in the Apache Tomcat Server.
* Wrote number of test cases using JUnit for testing **Hibernate** Session and different actions.
* Used Distributed Caching to reduce traffic to the persistent data store.
* Used **Log4j** for application logging and debugging
* Used **Github** as Distributed version control system and branching for creating a new feature and making bug fixes.
* Involved in post-production support and maintenance of the application

**Environment**:

Java 1.7, J2EE, JSP, HTML, CSS, JavaScript, GWT, AJAX, Servlets, Spring (MVC, DI, AOP, Security), Hibernate, EJB (Session Beans), Restful based Web Services,AWS, Log4J, WebSphere, JNDI, Mule ESB, JUnit, Maven, Github, CloudWatch, JPA, Oracle 11g, Windows XP, UNIX, Eclipse.

**Client**: Securian Financial- Saint Paul, MN

**Role:**  Java Full Stack Developer **Duration:** September 13 – December 14

**Responsibilities:**

* Involved in Analysis, Design, and Implementation of software applications using Java, **J2EE**, **XML** and XSLT and WebServices (SOAP, WSDL).
* Developed the application using **J2EE, JSP, Tag Libraries, XML, XSD** and **Oracle**.
* Used **JSP and Servlets** for server side transaction.
* Developed the User Interactive web pages in a professional manner with using web technologies like **HTML**, **XHTML**, and **CSS, Angular.Js** as per company's standards.
* Created XML Schema, XML template and used **XML SAX/DOM API** to parse them.
* Used XPATH to navigate through Attributes and Elements in a XML Document.
* Developed modules to interact with other enterprise applications using Web services WSDL and SOAP Web Sevices.
* Developed **JQuery** code using an **XML** Http Request Adapter to send an AJAX request to the server side code and also implemented a callback function to handle the results.
* Developed several REST web services supporting both **XML** and **JSON** to perform tasks such as such as Thermostat and Demand-Response management.
* Used **JAXB** to marshal and unmarshal the xml-java object, java objects-xml.
* Design and development of Test Simulation tools in Java (J2EE), to automate **SOAP** transactions.
* Involved in Unit testing of application using **Junit** and built the package using Ant and deployed the application on to WebLogic App Server.
* Developed entire application web-based client implementing MVC Architecture using **Spring MVC** Framework.
* Implemented Object-Relation Mapping in the persistnace layer using **Hibernate** Framework in conjunction with **Spring** Functionality.
* Design and developed the processes using Multi-Threading to make it Asynchronous.
* Used **Multi-Threaded Environment** to run the processes asynchronously using different future calls to access the data.
* Developed several **Shell** Scripts to automate file transfer.
* Participated in understanding of **ExtJS** technologies and development tasks.
* Version control of the code and configuration files are maintained by SVN.
* Involved in Unit Testing using **JUnit**.
* Worked on generating the web services classes by using **WSDL, UDDI, SOAP, Spring-WS.**
* Involved in technical requirement requirements gathering.
* Involved in developing spring components and **Hibernate** modules.
* Involved in leverage component framework to web technologies through Java web start.
* Developed the system architecture (**UML**).
* Good hands on **UNIX** Commands, used to verify the log files on the Production Server.
* Used **Log4j** for logging and debugging.
* Used **Jenkins** with the methologies like CI (Continous Integration) and CD (Continous Development).

**Environment**:

Java 1.6, Java Beans, JSP, Servlets, Spring MVC, Spring (DI, AOP, Batch) HTML, XML, DHTML, JSON, Hibernate, SOAP based WebServices, JBoss, Log4j, JUnit, Eclipse, IntelliJ, Subversion, Jenkins.

**Client:** Cerner- Kansas City, Missouri

**Role:** Java Developer **Duration**: January 2013 - September 2013

**Responsibilities:**

* Responsible for developing **DAO** layer using **Spring MVC** and configuration XML's for Hibernate.
* Created **Restful** web services interface to Java-based runtime engine and accounts.
* Load and transform large sets of structured, semi structured and unstructured data
* Created **POC** for **Spring Batch** for running batch jobs.
* Developed server-side services using Java, **Spring, Web Services** (SOAP, WSDL).
* Designed and developed various modules of the application with J2EE design architecture, **Spring MVC** architecture using **IOC, AOP** concepts.
* Consumed **Web Services** for transferring data between different applications.
* Experienced with **SOAP/WSDL**.
* Used **Github** as Distributed version control system and branching for creating a new feature and making bug fixes.
* Used **Soap** based Spring Web services for transferring data between applications.
* Used **Rest** web services to expose services within the application.
* Involved in the application development using **Spring MVC** module.
* Developed application client using **Multi-Threading** concepts
* Analyses business needs and create software solutions, design and documentation of **REST APIs** for collection.
* Responsible for Creating/Configuring monitoring tools and automates proactive monitoring tasks.

**Environment**: Java 1.6, J2EE, Spring Security, Spring MVC, Spring Batch, Hibernate, SOA, JSP, WAS 7.0, Gradle, Groovy, XML, Java script, DB2, MySQL, WebLogic, JMS, JUnit, SOAP, REST, Github, Unix, Intellij IDE, Eclipse.

**Client:** Amdocs-India

**Role:** Java Developer **Duration:**  November 2010 – December 2012

**Responsibilities**:

* Extensively participated in the Analysis, System study and Designing of the project.
* Participated in **Scrum** meetings and project planning and coordinated the status sessions.
* Responsible for creating **UML** diagrams Class diagrams, Sequence diagrams, Use Case diagrams, Object Model diagrams, and deployment diagrams using Rational Rose.
* Used **JavaScript, AJAX, JQuery** technologies for front end user input validations and Restful web service calls.
* Involved in writing **jQuery-**based Ajax requests using jquery.get or jquery.ajax and jQuery.post.
* Used **Spring IOC** for dependency injection and Spring AOP for cross cutting concerns like logging, security, transaction management.
* Used **Spring MVC** framework for implementing the Web tier of the application.
* Designed, developed and maintained the data layer using Hibernate and used **Spring ORM** to integrate with Hibernate.
* Developed annotation based mappings in **Hibernate**.
* Develop DAO service methods to populate the domain model objects using **Hibernate**.
* Increased performance of code by implementing **Hibernate** Named queries.
* Used **XML** for the data exchange and used SAX and DOM parser to extract and read the required information from the XML.
* Developed Web Services using **REST**.
* Developed **Session Beans** for the Business logic.
* Involved in creating, modifying and updating database tables in **oracle 11g**.
* Used WebSphere Application Server and involved in setting up the application server profiles in Eclipse for running the application on development environment.
* Used **GITHUB** for source control.
* Used **Selenium** framework for testing the application.

**Environment**: Java 1.6, J2EE, JSP, Servlets, CSS, HTML, IBM WebSphere application server, Spring, Eclipse, Sybase, Sql developer, Windows 7, Hibernate, XML, XSLT, WSDL, SOAP, UML, JUnit, Github, Rational Rose, Selenium.

**Client**: United Health Group-India

**Role**: Java Developer **Duration**: May 2009 to October2010

**Responsibilities**:

* Involved in Analysis, Design, Development, Unit Testing and Load Testing of the Application
* Built data-driven Web applications with server side **J2EE** technologies like **Servlets**/J**SP**.
* Generated dynamic Web pages with Java Server Pages (**JSP**).
* Used **Struts MVC** Framework, JSP, Servlets, JavaScript, Ajax, XSL, CSS, DHTML, XHTML and HTMLfor developing UI Screens.
* Implemented the persistence layer using **Hibernate** ORM. Utilized PL/SQL for stored procedures.
* Developed Eclipse Rich Client Platform framework for creating Java client side applications.
* Developed **Hibernate** Mapping files and Domain objects.
* Developed **JUnit** Test Cases for Service Layer and DAOs.
* Developed **Ant** Scripts to build the application.
* Implemented Oracle **Queries** and Triggers using SQL Server, SQL and PL/SQL.
* Developed and deployed **EJB 3.0** bean components on WebLogic application server
* Obtained **Message Driven Beans** functionality using Scheduler timers and Session beans, **JMS** to listen for test orders and test results and update database.
* Used **Singleton, DAO, DTO, Session Façade, MVC** design Patterns.
* Wrote UNIX **shell scripting**.
* Involved in development and deployment of application on **UNIX** environment.

**Environment**: Java 1.5, J2EE, EJB, JDBC, ANT, Oracle 10g, SQL, PL/SQL, Eclipse, SQLServer, XML, JMS, JavaScript, CSS, DB2, Struts, Hibernate 3.0, HTML, Websphere MQ Series, Web Services, Apache Tomcat, Log4J, WebLogic 9.2, JUnit, JSTL, Axis 1.4, UNIX, RCP.