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**PROFESSIONAL SUMMARY:**

* **Oracle certified Java SE 8 Programmer with Around 8 years** IT experience as a **Java developer** in Analysis, Object oriented design, development, implementation, and maintenance of software applications using **Java/J2EE** technologies using methodologies like **Agile/Scrum and Waterfall**.
* Strong front-end User Interface development skills **using HTML5/4, CSS3, Bootstrap3/4, JavaScript 2.0, JQuery 3.x, React.JS, AJAX, JSON, JSF and JSP.**
* Experience in working with **Angular 6/8** modules, services, templates, directives, services and dependency injection to create a **Single page Applications.**
* Experience in core Java concepts like **Multithreading, Data Structures** such as Queue, Linked lists and Sorting Algorithms**, Collections, generics, and Exception Handling concepts.**
* Experience with Java 8 features like **Date Time API, Optional, Streams API, parallel stream**s and filters

through **lambda expressions**.

* Extensively worked on various design patterns such as **Factory,** **Singleton, Session Facade, Prototype,**

**Adapter** and **Abstract Factory** in the development of Multi-Tier distributed Enterprise Applications.

* Good Experience on **Java EE** technologies such as **Servlet 3.x**, **JDBC**, **JSP**, **JSTL** and **JNDI**.
* Extensive experience in design, development and implementation of Model - View-Controller frame works using **Struts** and**Spring MVC**.
* Excellent knowledge on Spring Core features such as **Dependency Injection**, **Annotations** and XML based **Configurations.**
* Hands-on experience with **Spring AOP**using **Advice**, **Aspects** and **AOP Processor, Spring AOP and JPA**.
* Extensive experience in development and implementation of **ORM framework Hibernate**/ **Hibernate** with **Spring Data Access.**
* Good knowledge on Object Oriented Programming **(OOP)**, Analysis and Design **(OOAD)** concepts.
* Experience in Web Services Technologies like **SOAP** and **REST** with **spring** and implemented **SOA** architecture with **web services.** Extensive experience in developing **Microservices** using **Spring Boot.**
* Great experience in using **Spring Boot** to develop **REST APIs** using **Micro-services** architecture.
* Well Acquainted with **RDBMS** like **Oracle 9i/10g/11g/12c, MySQL, DB2, PostgreSQL, MySQL and Teradata Databases** andproficient in developing **Stored Procedures, Triggers, Functions, and Packages** besides writing **DDL**, **DML** and **Transaction** queries with development tools like **TOAD** and **Rapid SQL**.
* Proficient in using **NoSQL** database like **MongoDB, Cassandra** to support the storage of JSON objects.
* Implemented unit testing by writing Test plans, Test cases and performed **Junit** testing for server-side code.
* Experience in testing tools like **Mockito,** automated **Power Mockito**, **cucumber, Jenkins, Selenium,**

**Karma, Jasmine**

* Experience in working with application server technologies like **IBM WebSphere 9/10.x**, **WebLogic**,

**Apache Tomcat** and **JBoss 5/4**.

* Experience with **CI/CD pipelines** to integrate the Java code with DevOps practices and deploy **micro services**

on **docker containers**.

* **AWS certified professional** with good knowledge on **Amazon AWS Cloud, EC2, S3, VPC, ELB, AMI, SNS,**

**RDS, IAM, Lambda, Route 53, Auto Scaling, cloud front, cloud watch, cloud trail, cloud formation,**

**OPS work, Security Groups.**

* Experience in working with projects utilizing test-driven development (**TDD**), **BDD** and Acceptance Test-driven development (**ATDD**) methodologies.
* Hands on experience with build and deployment tools including **Ant** /**Jenkins**/ **Maven/Gradle**, logging and Debugging using**Slf4** and **Log4j.**
* Experience with **Use-Case** design, **Class**and**Sequence** diagrams using **UML**.
* Good working knowledge on **version control** software’s such as **TFS, GIT and Bit Bucket.**
* Good working experience in application development using IDE's like **Eclipse**and**Net Beans, IntelliJ.**
* Worked with a team consisting of different level of officials with proven experiences and in coordination with clients and offshore team. Additionally, given KT (Knowledge transfer) to the application developers.

**TECHNICAL SKILLS:**

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| **Programming Languages** | **C, C++, Java, SQL, PL/SQL.** |
| **J2EE Technologies** | **Servlets, JSP, JSTL, EJB, JMS, JDBC.** |
| **Web Technologies** | **HTML5, CSS3, XML, JavaScript, jQuery, AJAX, Angular 2/4, Node JS, Bootstrap** |
| **Micro services** | **Spring Boot, Rest API, Spring Core, Spring Integration, Spring Security.** |
| **Frameworks** | **Hibernate, JPA, Struts, Spring MVC, JSF.** |
| **IDE’s** | **Eclipse, IntelliJ, Spring Tool Suite, Visual Studio Code** |
| **UML Tools** | **MS Visio, Rational Rose Enterprise.** |
| **AWS** | **EC2, S3, CLI, Cloud Watch, ELB, EBS, RDS, SNS,VPC,SDK, Lambda** |
| **Servers** | **Oracle Web logic, IBM Web Sphere, JBoss and Apache Tomcat 9.0/8.0/7.0.** |
| **Logging Tools** | **Log4j, SL4J.** |
| **Databases** | **Oracle 8i/9i/10g/11g/12c, DB2, SQL Server 2000/2008/2012, MySQL, MS Access, PostgreSQL, MongoDB** |
| **Build Tools** | **Maven, ANT, Gradle.** |
| **Web Services** | **SOAP, REST, JAX-RS, JAX-WS.** |
| **Messaging Technologies** | **JMS, IBM MQ SERIES.** |
| **Operating Systems** | **Windows, Unix/Linux, iOS.** |
| **Testing** | **Junit, Mockito, Selenium, Cucumber, SonarQube** |
| **Bug Tracking Tools** | **JIRA, Rally** |
| **Web Services and Tools** | **REST, SOAP, Postman, Swagger, SoapUI** |
| **Version Control** | **TFS, BITBUCKET, GIT.** |
| **Java Design Patterns** | **MVC, DAO, Singleton, Factory, Session Facade, Adapter, Bridge** |

**CERTIFICATIONS:**

* **Oracle Certified Associate, Java SE 8 Programmer - 276819335OCAJSE8** ([**Click to View Badge**](https://www.youracclaim.com/go/EnXrjpVgcWOE3AmGkJMC4Q))
* **AWS Certified Developer (Associate Level) – Validation No:** LHKF29L1HEFE1KG8 **(**[**Click to View Badge**](https://www.youracclaim.com/go/j3pW8sDIIIOzSM4xaFxe8g)**)**

**PROFESSIONAL EXPERIENCE:**

**Sr. Full Stack Developer**

**Client: BCBST, Chattanooga, TN** **August 2019 - Present**

**Description:**

BCBS works in partnership with the entire health care community to improve quality and efficiency in an evolving health care system and provides leadership in the broader health care marketplace. This project seeks to make different process used independently to be automated which reduces the work for consumers and Provider relationship teams. We worked on building product for the providers where they get all the needed forms and information documents in one place to submit claims and request acknowledgements which need not require personal attention to respond for.

**Responsibilities:**

* Involved in entire **SDLC** activities of the project including, **requirement gathering** from the business owners of the product, **performing analysis** on the requirements, providing **design solutions**, discussing the technical and non-technical aspects on the design with concern tech teams, developing and testing the end to end application.
* Participated in **Daily** **stand-up**, **Sprint Planning**, **Retro** **meetings,** and **backlog Refinement meetings** as part of **Agile** and SCRUM methodologies.
* Develop User Interfaces with clear and attractive designs with intuitive navigations using **HTML5 & CSS3**. Used **JavaScript** for validations and dynamic updates on the web pages based on user actions and **jQuery** for implementing animations and graphics.
* Worked with **Angular 8 for creating dynamic web pages for the application.** Created reusable Life Cycle hooks to the application for adding more functionality and flexibility.
* Worked with **Angular HTTP** **Services** to request typed response objects, handle streamline errors and to make rest calls for various **CRUD Operation**.
* Extensively used**Core Java** concepts like**Collections Framework, and Exception Handling, I/O System, Multi-Threading, Generics** throughout the application for well-structured programming.
* Used **Java8** features like **Lambda expressions** for implementing event listeners and callbacks, **For Each** method to iterate over a collection such as list, set, map and **Java Stream APIs** for bulk data operations on Collections.
* Used **Microservice** architecture for building web services using **Spring Boot** which reduces the time for development and deployments considerably.
* Worked with **Spring Boot JPA** which manages relational data in Java applications and to access and persist the data between Java object/ class and relational database.
* **Responsible for migrating existing modules in IBM MQ to Apache Kafka and worked on creating Kafka adaptors for decoupling the application dependency.**
* Configured **Spark** streaming using **Scala** to receive real time data from the **Kafka** and store the stream data to **HDFS**.
* Utilized **Apache camel** for micro services orchestrations to reduce the network load from Client Side Applications.
* Build **JAVA Spring batch service for data exchange and** manipulating data from various databases**.** We used **Tidal** for scheduling daily and weekly batch jobs.
* Applied Design patterns **Singleton, Business delegator, Factory, Service locator** to speed up development process.
* Extensively used **SQL concepts** to Insert, **Retrieve and Update the information in** the **MySQL** database. Developed stored procedures and triggers using **PL**/**SQL** in order to calculate and update the tables to implement business logic.
* Implemented **Swagger** Configuration in java Spring boot for auto generating swagger json files which includes documentation of the API and makes API validation simpler.
* Used **JUNIT** for writing test cases and used **Mockito** framework to confirm the expected results. Also, unit tested client side code built using Angular with **Karma and Jasmine**. Developed test scripts in**Selenium Web Driver** using Core Java Concepts.
* Used **SoapUI** and **Postman** for validating and checking the response formats of REST Services.
* Utilized **Bit Bucket** as Distributed version control system and source Repository.
* Used **Maven** for dependency management and for building the application and **Jenkins** for continuous integration and deployment of both server side and client side codes where unit test executions and Vera code scans are done before each deployment.
* Created **Docker** images/container and integrating with **Spring Boot and having them**  Deployed in **Docker** contained Spring boot micro services into AWS EC2 container service using Continuous Delivery (CD) pipelines. And used **lambda** to run applications in AWS console.
* Developed **front end and backend** application components by adopting the concepts of **Spring and angular JS** for image processing requirements and deployed into **AWS cloud** platform using **AWS EC2, S3 and Lambda** and established well defined work flow to achieve the consistency across the front end and backend components and integrated with **AWS SQS** to enable high availability for the user requests.
* Monitored the various error logs, messages and performance logs and debug into the log files using **Log4J**.
* Coordinated with the testing team for **bug tracking reports and project management** through **JIRA**.
* **Mentored and motivated** development team members to complete the tasks efficiently and in time.
* Involved in the **analysis and troubleshooting of issues** and fixing the **defects** raised by the QA team.

**ENVIRONMENT:** Agile**,** J2EE, Java8, HTML5, CSS3, Angular8, Typescript, JavaScript, JQuery, Bootstrap,

Spring Boot, spring boot JPA, Restful Micro services, Apache Camel, MySQL, JSON, Swagger, SQL, Bit bucket, Jenkins,

Maven, Docker, Amazon EC2, Amazon S3, Junit, Mockito, Postman, Soap UI, Jasmine, Karma,Design Patterns,

**Sr. Full Stack Developer**

**Client: Fidelity Investments, Raleigh, NC** **Jan 2018- July 2019**

**Description:**

Fidelity's Workplace Solutions (WS) Digital Platforms Technology team designs, develops, implements, and supports WS’s suite of Internet products and services. The Digital Platforms development team focuses on delivering innovative solutions that meet the needs of our customers. Our systems professionals thrive with an unyielding commitment to innovation, which fosters a culture of continuous improvement and significant achievement. Our group is a fast-paced group that is using cutting edge technologies to create powerful tools and a best in class user experiences for our customers.

**Responsibilities:**

* Worked **in Agile environment** for designing and coding applications where we have bi-weekly sprint with Sprint planning, daily scrums, sprint retrospective meetings and backlog refinement meetings.
* Followed **Test-Driven Development (TDD)** where we write test cases prior to development and have the code developed to have the test cases passed.
* Created and Developed User Interface designs using **HTML5** for high flexibility and efficiency, **CSS3** for styling purposes and Developed Single Page Applications using Angular 6 to improve user experience and for better network utilization.
* Created various **Modules/Controllers/Components/Directives** for the application using **Angular 6** framework to load the content dynamically and to interact with server on analytics dashboard of the SOA services. Configured routing in the application for the components using **Angular Router Module**.
* Created **Typescript** reusable components and services to consume **REST API's** using Component

based architecture provided by **Angular 6**.

* Worked on the **Object-Oriented design methodology** and **Core Java concepts** such as multi- threading, exception handling, generics, annotations, Collections and I/O.
* Used Java 8 features like **Java Time API** to streamline the process of working with time and **Java stream API** for bulk data operations on collections and lambda expressions for callbacks and event listeners.
* Used **Spring MVC** and **Spring** **JDBC** Template for object-to-relational mapping from the database and creating POJOs.
* Worked on **Spring MVC architecture** which follows the **Model-View-Controller** design pattern which implements all features of spring framework like Inversion of Control, Dependency Injection, Aspect Oriented Programming (AOP).
* Employed **Spring Boot** to initialize and bootstrap the build configuration for the web applications.
* Developed Micro Services **RESTful APIs** using **Spring Boot** that provides fast and efficient data

exchange against **NoSQL** Databases.

* Configured **Kafka** to read, write messages from external programs and to handle data coming from

**Spring boot** **microservices**.

* Implemented **Kafka** producer and consumer applications on Kafka cluster setup with help of Zookeeper.
* Used **Hibernate**, **JPA** to interact with persistence layer and make the business transactions satisfy **ACID** properties

using **JTA** spec (**CMT**) and **BMT.**

* Worked on **MongoDB** database concepts such as locking, transactions, indexes, Shading, replication, schema design. Created multiple databases with **shared collections** and choosing shard key based on the requirements. Experience in managing **MongoDB** environment from availability, performance and scalability perspectives.
* Used **Apache POI** for uploading Excel files and optimized the load time.
* Worked on **Swagger UI** to generate interactive API documentation and to try out the API calls directly in the browser.
* Tested the JavaScript files using **MOCHA framework,** to test both synchronous and asynchronous code.
* Used **JUnit/Mockito/Selenium** to perform unit testing of application. Created test conditions/test data.
* Utilized **API testing tools** like **SOAP** **UI and POSTMAN for** testing Restful Webservices.
* Worked with **Git** for configuration management and version control.
* Used **Maven** for dependency management and for building the applications and used **JFrog** as the artifactory.
* Used **Log4j** for logging Errors and publishing logging information to various preferred destinations.
* Used **Jenkins** as Continuous Integration tool to deploy **Spring Boot** Microservices by implementing the CI/CD methodologies.
* Involved in creating **EC2** instances and installed required configurations and deployed applications on it.
* Created **S3 buckets** for storing object level data into it and used static website feature and deployed static website application content into S3. Configured **AWS Identity and Access Management (IAM)** Groups and Users for Improved Login authentication.
* Used to work in **DevOps** workflow and automated the deployments life cycles by using testing frameworks such as Junit, Spock to AWS cloud using Jenkins CI/CD pipelines and leveraged AWS orchestration tools such as Elastic Bean Stalk and ECS and achieved monitoring using cloud watch integrations.
* Used **JFrog** **artifactory** for storing JAR, WAR, EAR files of end-to-end applications.
* Worked with Agile Scrum team to resolve issues, perform code correction to defects and redeploy code to **QA** branch, review with **QA** for retesting fixed bugs and close defects.

**ENVIRONMENT:** Agile, J2EE, Java8, HTML5, CSS3, Angular6,TypeScript, Bootstrap, Design Patterns, Spring MVC, Spring Boot, JSON, XML, Micro services, Restful, Swagger, Mocha, SQL, Log4j,MongoDB, GIT, GitHub, Jira, Jenkins, Gradle, , Amazon EC2,IAM Amazon S3, Junit, Selenium, Mockito, Postman, SoapUI, JFrog.

**Full Stack Developer**

**Client: Sysco, Houston, TX June 2016- Dec 2017**

**Description:**

Sysco is a global leader in selling, marketing and distribution food and non-food products to restaurants, healthcare, and education facilities, lodging establishments and other customers around the world. Here in Sysco, we worked on enhancing the inventory management portal and order maintenance portal where we came up with a solution to provide summary and total list of items ordered by all the customers for in a specific location and send it to the inventory support team than they looking at each and every order individually everyday which reduces a lot of human effort.

**Responsibilities:**

* Involved in entire Software Development Life Cycle (**SDLC**) of the project like Requirement gathering, Conceptual design, Analysis, Detail design, Development, System Testing, and User Acceptance.
* Worked in **Agile** software development, attended daily scrum meetings, sprint planning meeting and sprint retrospective and tracked the progress on Rally and defect tracking.
* Actively participated in user **story discussions and planning to analyze** the level of effort on project specifications. Also involved in development and grooming of Project Backlog stories with business and technology partners.
* Designed the front-end applications, user interactive (UI) web pages using web technologies like **HTML5, XHTML, CSS3,** **BOOTSTRAP v3.3.5.**
* Worked in using **React JS components for reusable UI elements, Forms, Events, Keys, Router, Animations and Flux concept**.
* Implemented **React** **components** and **one-way data binding** to achieve composition, stability

and inter-operability in the application.

* Used **React-Router** to turn application into **Single Page Application** and Implemented drag and drop functionality using **React-Draggable**.
* Used java SE8 features like **stream, lambda expressions, and functional interface and type annotations** and also worked with core java concepts like **Multithreading, Transaction Management, and Exception Handling**.
* Developed web services usin**g Spring Framework** (Dependency Injection, Auto wiring, Caching, Database Connectivity, SOAP Client API) which communicates with various service layers and configuring the spring xml files.
* Used **Spring JDBC Template and its provided methods to connect to the database and execute SQL queries.**
* Integrated **Spring Security** and spring **OAUTH2** for application security and API security.
* **Responsible for migrating existing modules in IBM MQ to Apache Kafka and worked on creating Kafka adaptors for decoupling the application dependency.**
* Designed Database schema, created complex **SQL** queries for **CRUD** (creating, reading, updating and deleting) operations in database and wrote stored procedures for retrieving data.
* Substantially acquainted to **SOA (Service Oriented Architecture)** and developed **Web services** using **Apache CXF to** achieve flexibility when deploying the applications**.**
* Used **SonarQube** to measure code coverage, code standard compliance and unit test results.
* Utilized **Junit**, **Mockito, Selenium** framework for unit test coverage of the code and Used **Swagger** for documenting test **Restful** web services.
* Configured and deployed web applications using web server like **Apache Tomcat**.
* Tested Restful API’S sand Soap Web services Using **SOAPUI and POSTMAN**.
* Setup and Configured **Jenkins** for Continuous Integration and Deployment process.
* Used **Log4J** to logging, debugging, and providing warning and info on the server console.
* Worked with **Git** for configuration management and version control. Utilized **NGINX** HTTPS Load balancer to setup inverse proxy server.
* Contributes to an atmosphere of cross-functional teamwork within the organizations agile project lifecycle.

**ENVORONMENT**: AWS,J2EE, Java 8, Tomcat, HTML5, CSS, JavaScript, Angular 2, Spring, Hibernate, Swagger, Multithreading, JDBC, Webservices, REST, SOAP UI, Teradata SQL Assistant, Maven, JUnit, Mockito, Jenkins, GIT, Sonar,.

**Java Developer**

**Client: YRC Freight, Overland Park, KS**  **Jan 2015- May 2016**

**Description:**

Provide the capability to capture and store additional equipment events to support more accurate, granular, timely, relevant and consistent derivation of status to support freight movement decisions in the field and internal business decisions which helps with reporting to customers and shipping partners, integrating across tools where necessary. This project seeks to close the equipment status gaps by adding statuses and making the data more available, accurate and meaningful to the various user roles that interact with equipment. Improved status information is vital to the development of future systems such as yard management, dock management, line haul, city P&D and equipment management/planning.

**Responsibilities:**

* Actively involved in analysis, detail design, development, bug fixing and enhancement in **Agile** methodology Involve in daily **SCRUM** and sprint planning meetings.
* Designed and developed the application using **Angular JS**framework along with **HTML5**, **CSS3**, **Java Script**, **Bootstrap**, **Node**.**js**, **NPM**.
* Moved existing **AngularJS controllers** and **services** to **Angular JS components** for more responsive and less dependency.
* Developed single page applications and Enhanced legacy application by building new components in **Angular JS** and **JavaScript**.
* Utilized **AngularJS** dependency injection to inject custom services and created custom directives

for reusable components.

* Developed **Angular-JS** components such as controllers, Services, filters, models.
* Worked with **JSON web tokens** for **authentication** and **authorization** security configurations using **Node.js**.
* Worked with **npm commands** and using package.json for managing dependencies and dev-dependencies of **Node js** applications.
* Used **core Java concepts** like **Collections, Generics, Exception handling, multithreading, IO, Singleton Concurrency** to develop business logic. Involved in using Data Structures such as Queue, Linked lists, and Sorting Algorithms.
* Design and develop application codes using Java/JEE, XML, SOAP, REST, Spring Framework, and Hibernate Framework and used **Singleton** as the Design pattern.
* Utilized working knowledge of **J2EE/Java and Spring, and Hibernate** to troubleshoot technical issues, error messages, bugs with the software and availability.
* Developed SOAP based web Services as API using **spring** and deployed on **Jetty/Tomcat** containers.
* Developed back end interfaces using embedded **MySQL, PL/SQL** packages, stored procedures, Functions, Procedures, Exceptions Handling in **PL/SQL** programs, Triggers.
* Involved in agile software methodologies using **TEST DRIVEN DEVELOPMENT (TDD).**
* Used **JIRA** to keep track of **bugs** to reduce **downtime, increase productivity**, and Communication.
* Configured and created application log files using **slf4j 1.6** required to trace messages.
* Used **SOAPUI** and **Postman** for local testing of SOAP and Restful webservices.
* Involved in Requirements gathering and Designed Application flows and developed **UML** diagrams
* Utilized **Bamboo Continuous Integration and delivery tool** (CI/CD) to automate builds and tests in a single workflow.
* Involved in fixing bugs and unit testing with test cases using **Junit and Mockito** framework.
* Used **TFS** as Distributed version control system and branching for creating feature and making bug fixes.

**ENVIRONMENT:**Agile,HTML5,CSS3,Javascript,JQuery,NodeJS,ExpressJS,JSON,XML,SpringFramework,Ajax,ORM,SQL, MySQL, TFS,Junit,Mockito,SoapUI,slf4j1.6,Bamboo CI/CD tool.

**Java/J2EE Developer**

**Client:** **Wipro BAE Systems**  **Jan 2013- Dec 2014**

**Description:**

BAE Systems Intelligence & Security based in McLean, Virginia, designs and delivers advanced defense, intelligence, and security solutions that support the important missions of our customers. Our pride and dedication shows in everything we do—from intelligence analysis, cyber operations and IT expertise to systems development, systems integration, and operations and maintenance service. Working on supporting and enhancing the existing internal facing applications for monitoring purposes.

**Responsibilities:**

* Worked on **Waterfall Model** for designing, implementing and developing the Application.
* Generated Use case diagrams, Class diagrams, and Sequence diagrams using **Rational Rose**.
* Responsible for creating efficient design and developing User Interaction screens using **HTML4, CSS, and JSP.** And performed validations on UI using **JavaScript.**
* **Involved in developing applications by using Core Java concepts like Java collection classes (List, Set), Multithreading, Servlets**, JSP and connection to the Database is done **by JDBC Bridge**.
* Defined and designed the layers and modules of the project by using **OOAD** methodologies and standard J2EE design patterns & guidelines.
* Created **Servlets** for developing Control Logic and Java Beans for developing Business Logic of the application. Developed the Action Classes, Action Form Classes, created **JSPs** and configured in **Web.xml** files. Used **Struts** the MVC framework for building web applications.
* Configured and tested the application with **database server Oracle 10g.**
* Developed **Web Service** provider methods (bottom up approach) using **WSDL**, **XML** and **SOAP** for transferring data between the Applications.
* Developed stored procedures and triggers using **PL**/**SQL** in order to calculate and update the tables to implement business logic using Oracle database.
* Used **TFS** as Distributed version control system and branching for creating a new feature and making bug fixes. Involved in fixing bugs and unit testing with test cases using **JUnit**, **Mockito and Cucumber.**
* Used **WebLogic Web** server for deploying the application.
* Attended daily **Scrum** meetings, **Sprint** planning meeting and sprint retrospective meeting.

**ENVIRONMENT:** Waterfall, Java, Java OOPS, JSP, HTML4, CSS, JavaScript, Struts, Servlets, Multithreading, Oracle 10g, JDBC, WebLogic Server, Singleton Design Pattern, Junit, Mockito, Cucumber, TFS.