**AJAY PRASAD TIWARI**

*(Java Full stack Developer)*

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**SUMMARY**

* Java Full Stack Developer with around 10+ years of software development experience in Java/ J2EE, Spring Boot, Spring MVC, JSP, C, C++, JavaScript, SQL, PL-SQL, Node JS, Struts, Hibernate, Web Services. Involved in complete SDLC from inception, planning, design, coding, and testing to project closure mainly in the intranet, Internet and standalone application design, development, maintenance and production support in n-tier architecture.
* Experience in Microservices and Spring Boot application development.
* Deployed Spring Boot-based Microservices in Docker container using Amazon EC2 container services and using AWS admin console.
* Experience in using Microsoft REST APIs for Azure Cloud and Office 365
* Strong experience with Java concepts like Exception Handling, Collections, and Multithreading. Played around with Synchronized collections and Concurrent Collections, Serialization, Java Beans and Network programming
* Strong understanding of Object-Oriented concepts like Inheritance, Polymorphism, Encapsulation, Abstraction
* Involved in designing and creating the Database Tables using PostgreSQL and DB2 Database.
* Experience implementing SOA, and Webservice applications.
* Strong Experience in developing applications using frameworks like Struts, Java Server Faces (JSF) and Spring Frameworks Worked on maintaining persistence using Hibernate, and JPA ORM.
* Extensive experience in various spring modules such as Spring Boot, Spring Security, Spring AMQP, Spring Data JPA and Spring Batch.
* Experienced in implementing presentation layer using JSF, JSP, HTML5, CSS, jQuery, JavaScript, AngularJS, Angular 2, Ext JS, Node JS, JSON and Servlets.
* Proficiency in developing web services (Soap, Restful) that include several components like SOAP, WSDL, XML, XSD, Axis2, JAXB, JAX-RS and JAX-WS. Also Developed SOAP web services using Apache CXF and Drop Wizard, IBM M Q, Mule Soft ESB.
* Experience deploying applications on Apache Tomcat 9 Web Server, BEA Web logic 8/9/10, Web sphere 5.0/6.0 application server environments.
* Designed and developed multiple J2EE Model 2 MVC based Web Application using J2EE Technologies, Patterns and popular open-source framework Struts, Spring MVC, spring, JPA and Hibernate.
* Developed the Product Builder UI screens using Angular-JS6, Node JS, Vue.js, React JS, HTML5, CSS, JavaScript and Bootstrap.
* Expert in HTML5/CSS3 development of creating visually captivating and responsive web interfaces. React.js and Angular.js to build dynamic and interactive web applications that deliver exceptional user experiences.
* Good experience maintaining the project in IBM Rational Clear Case, SVN, CVS, and StarTeam version control repositories.
* Experience in using XML-based technologies and parsers DOM, SAX, JAXP, and JAXB.
* Experience in database design, NoSQL, data modelling and developing stored procedures, functions and triggers using SQL plus, SQL developer in Oracle 9i, My SQL and DB2.
* Created REST APIs by using Spring and exposed them from my existing system so that it is consumed by other applications.
* Experience in several agile frameworks like Scrum, XP, and Using TDD/BDD and ATDD approach.
* Experience in writing test cases in Java environment using Junit, Mockito and Power Mock, JIRA.
* Experience in managing the build files using ANT and Maven.
* Experience in using the Log4j framework for Logging Java Applications.
* Experience with Docker Images/containers and Kubernetes.
* Worked on (AWS) infrastructure with automation and configuration management tools such as Chef and Puppet.
* Good knowledge of AWS, and Amazon Cloud Services like Elastic Compute EC2).

**EDUCATION**

* Master’s in computer science (Lamar University 2012)
* Bachelor’s in computer science and engineering (JNTUH 2010)

**TECHNICAL SKILLS**

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| **Programming Languages** | C, Java, JavaScript, PHP, PL/SQL, UNIX Shell Script. |
| **Java/J2EE Technologies** | Servlets, Spring, JPA, JTA, JDBC, JSP, JSTL, RMI, Applets. |
| **Frameworks** | Struts 2.5, Hibernate 5.x, Spring 5.0, Spring Batch, Spring Security, Spring AOP, Spring Core, Spring IOC, JSF. |
| **Web Technologies** | HTML, HTML5, CSS/CSS3, AJAX, JQuery, Bootstrap, XML, Grunt, Gulp, JSON. |
| **Database** | SQL Server, MySQL, Oracle, MongoDB, DB2 |
| **JavaScript Frameworks** | AngularJS, Angular 8, JQuery, React.js, Node.js, Backbone.js, Hapi.js, Handlebars.js. |
| **Web Services** | XSD, WSDL, Apache Axis, SOAP, Restful, GraphQL, JAX RS, JAX WS |
| **Messaging** | JMS (Java Message Service), IBM MQ, Apache Active MQ, Apache Kafka. |
| **Web Application Servers** | Oracle WebLogic 10.x/9.x, IBM WebSphere 8.x/6.x, Apache Tomcat 8.0/7.x/6.x. |
| **Methodologies** | Agile, Waterfall, OOAD, SCRUM. |
| **Testing Tools** | JUnit, Mockito, Jasmine, Karma, Mocha, Chai, Selenium. |
| **Version Control** | SVN, CVS, GIT, and Clear Case |
| **Build Tools** | Maven, Gradle, ANT |
| **IDEs** | Eclipse IDE, RAD 6.0/7.0, Intellij IDEA, Spring Tool Suite (STS). |
| **Operating Systems** | Windows, Linux, and UNIX |
| **Software** | Visual Studio, Rational Rose, and Microsoft Office |

**WORK EXPERIENCE**

**Client: First Republic Bank, San Francisco, CA Feb 2021 – Till Now**

**Role: Java Full Stack Developer**

**Responsibilities:**

* Involved in various phases of Software Development Life Cycle (SDLC) such as requirements gathering, modelling, analysis, design, development, testing, and monitoring.
* Designed and developed a responsive and dynamic user interface using Angular 11 framework, providing a seamless and intuitive user experience for the web application.
* Utilized Angular 11 Material to implement a consistent and modern design system for the application, improving visual appeal and usability.
* Developed reusable and modular Angular 10 components, such as directives, pipes, and services, to improve code maintainability and scalability.
* Implemented Angular 10 Routing to enable navigation and URL management within the application, improving user engagement and SEO.
* Utilized Angular 10 Forms to implement user input validation and data binding, improving data integrity and security.
* Build scripts on AWS cloud for scheduling EC2 auto-scaling load balancer with python SDK.
* Converted a monolithic app to a microservices architecture using Spring Boot using 12-factor app methodology.
* Deployed, Scaled, Configured, and wrote manifest files for various Microservices in AWS.
* Dynamic loading of JSPs using AJAX.
* Designed and maintained PL/SQL scripts for automated database backups, recovery, and maintenance tasks.
* Designed and implemented MySQL replication setups for data redundancy and disaster recovery, improving fault tolerance.
* Involved in the front end using JSP, HTML, CSS, JavaScript and jQuery.
* Utilized Docker to containerize Java 11 applications, improving application portability, scalability, and reproducibility.
* Configured Docker file to define application dependencies and build Docker images, improving application packaging and deployment efficiency.
* Utilized Docker Compose to define and deploy multi-container Docker applications, improving application orchestration and management.
* Developed serverless applications using AWS Lambda, leveraging event-driven architecture to trigger functions in response to events from various sources.
* Utilized AWS Lambda with Amazon API Gateway to create serverless RESTful APIs, enabling seamless communication between clients and backend functions.
* Integrated AWS Lambda with other AWS services, such as Amazon S3, Amazon DynamoDB, or Amazon SNS, to create serverless workflows and microservices.
* Leveraged AWS Lambda for data processing and transformation tasks within ETL pipelines, optimizing data flows and reducing processing times.
* Provided architectural guidance to clients on designing and modeling DynamoDB databases, considering access patterns, scalability, and cost optimization.
* Developed data migration plans and strategies for migrating data from relational databases to DynamoDB, minimizing downtime and data loss.
* Designed and developed RESTful APIs using Java 11 and Apache Camel for smooth communication between applications.
* Design, develop, and maintain cloud-based applications using Java11 and microservices
* Implemented Terraform modules for infrastructure provisioning and automated deployments on GCP.
* Worked with Kubernetes to manage containerized applications and streamline the deployment process.
* Implemented MVC architecture using JSP, Spring, Hibernate and used Spring Framework to initialize managed beans and services.
* Designed and implemented RESTful APIs using Spring Boot and JPA, improving the application's scalability and maintainability.
* Implemented Spring Boot Actuator for monitoring and managing the application's health metrics, and other operational aspects in real-time.
* Scaled Microservices, distributed systems and server less applications using Simple Queue Service (SQS).
* Designed, implemented, and managed data streaming solutions using the Confluent Platform, including Apache Kafka, Kafka Connect, Kafka Streams, and Schema Registry.
* Designed and implemented custom scoring and ranking algorithms using Elasticsearch's scoring mechanisms, improving the relevance of search results.
* Working Experience in Messing Platforms such as Rabbit, Kafka, AWS SQS.
* Knowledge of Kafka's distributed architecture and its components such as brokers, producers, consumers, and topics.
* Experience in configuring Kafka clusters for high availability, fault-tolerance, and scalability.
* Familiarity with Kafka Streams API for building stream processing applications in Java 11.
* Developed web applications running on Node JS using the Express framework, Vue.js and with Mustache.js for front end MVC/tempting.
* Integrated CI/CD pipelines with version control systems (Git, SVN) to automate code integration and ensure version history accuracy.
* Implemented Spring Boot's scheduling capabilities, using features like @Scheduled to automate an execute tasks at specific intervals or times.
* Leveraged Spring Boot's integration with Spring Cloud to implement microservices architectures, utilizing features such as service discovery, circuit breaking, and load balancing.
* Utilized Spring Boot's support for message queues, such as RabbitMQ or Apache Kafka, to implement asynchronous messaging and event-driven architectures.
* Involved in development of Agent Verification System using Spring MVC framework.
* Used Spring Inheritance to develop beans from already developed parent beans.
* Used Spring AOP for logging, auditing, and transaction management to distinguish business logic from the cross-cutting concerns.
* Integrated third-party systems and services with AEM using APIs and connectors, enabling seamless data exchange and enhancing the functionality of web applications.
* Designed and developed responsive and mobile-friendly web pages using HTML5 markup language, ensuring a seamless and intuitive user experience across various devices and screen sizes.
* Implemented CSS3 Selectors and Pseudo-classes to target and style specific page elements, improving the application's visual hierarchy and user experience.
* Designed Terraform configurations to dynamically scale resources based on demand, optimizing resource utilization and cost efficiency.
* Created data model and generated Hibernate mappings and domain objects using Hibernate tools.
* Interfaced with the My SQL back-end database by integrating Spring with Hibernate.
* Extensively used hibernate named queries, criteria queries, Hibernate Query Language (HQL) and Optimistic Locking and Caching to process the data from the database.
* Developed Unit /Integration test cases using JUnit.
* Used Gradle tool for building and deploying the Web applications in Web Logic Server.
* Developed the application using Eclipse as the IDE and used its features for editing, debugging, compiling, formatting, build automation and version control (SVN).
* Helped migrating and managing multiple applications from on premise to cloud using AWS services like S3, Glacier, EC2, RDS, SQS, SNS, SES, Cloud Formation, VPC etc.
* Worked on a cross-functional Agile team to develop a Java-based web application, utilizing Scrum methodology and tools such as JIRA and Confluence to manage sprints, backlog, and documentation.
* Collaborated with product owners to refine user stories and acceptance criteria for a Java-based e-commerce platform, utilizing Agile practices such as sprint planning and retrospectives to continuously improve the development process.

**Environment:** Java, Angular 11/10, J2EE, HTML, CSS, JavaScript, jQuery, Struts, Spring IOC, Spring MVC, Spring AOP, JDBC, Hibernate, My SQL, HQL, SQL, JUnit, Gradle, JIRA, Log4J, Eclipse, SVN, Sybase, RCP and Web Logic Server, UCM, SVN, LDAP, Windows XP, Kubernetes, UNIX, UML, RCC, Clear Quest, Apache Tomcat, Web logic Server 10.3., GCP, Terraform, Apache Camel.

**Client: Oak Street Health, Downers Grove, IL Jun 2019 – Jan 2021**

**Role: Java Full Stack Developer**

**Responsibilities:**

* Developed Agent Portal with HTML5, CSS, LESS, JSON, AJAX and React JS for developing user interface and server-side technology with Node JS.
* Involved in continuous integration and DevOps methodologies such as Docker, Kubernetes, Jenkins, Gradle, Jenkins File, Docker File and Elastic Search.
* Experience in working with CI/CD tools like Jenkins and migrating towards GitLab CI CD.
* Automated build processes using tools like Jenkins, Travis CI, or GitLab CI/CD, ensuring consistent and reliable software builds.
* Implementation of a responsive UI which will scale itself depending on the device, platform, and browser, using React.JS, HTML5, CSS3, Bootstrap and Performed client-side validations using JavaScript.
* Worked on deploying services on Docker and Kubernetes containers based on events defined.
* Built a highly scalable, low-latency Node-JS API Gateway to interact with MongoDB databases with JSON using Express JS middleware.
* Worked on Test-driven development (TDD) and Behavior Driven Development (BDD) to generate JUnit test cases for testing various Java 11 components.
* Implemented error handling and logging mechanisms in PL/SQL code, facilitating efficient debugging and issue resolution.
* Utilized MySQL Workbench for database design, modeling, and visualization, ensuring accurate representation of data structures.
* DevOps experience with Jenkins, Gradle, GitHub, Artifactory, Maven and Docker.
* Involved in writing Spring Configuration XML file that contains declarations and another dependent object declaration.
* Designed and developed the REST based Microservices using the Spring Boot.
* Created RFP Microservice to provide RESTful API utilizing Spring Boot with Microservices.
* Working Knowledge in EC2 by creating snapshots, volumes and security groups for public and private instances.
* Designing and developing Restful API and services using best practices to interact within the Microservices and with the front end. Using spring MVC and spring rest.
* Designed and developed Microservices business components using Spring for different policies.
* Involved in the development of Microservices for all the models using combination of Spring Boot and Spring Security.
* Designed and implemented a real-time chat application using Spring Boot, WebSocket, and STOMP for bi-directional communication.
* Developed a web-based e-commerce platform using Spring Boot, Spring MVC, and Thymeleaf for server-side rendering of HTML templates.
* Utilized DynamoDB's key-value and document data models to model and store data efficiently, optimizing query performance and minimizing data retrieval costs.
* Developed and maintained data pipelines to ingest and transform data into DynamoDB tables, ensuring accurate and reliable data integration.
* Implemented Kafka producer and consumer applications on Kafka cluster setup with help of Zookeeper.
* Used Spring Kafka API calls to process the messages smoothly on Kafka Cluster setup.
* Involved in multi-tiered J2EE design utilizing Spring Inversion of Control (IOC) and Hibernate.
* Designed MVC architecture and Front control design pattern using Spring MVC Framework for Presentation tier and I have written code for the using Spring MVC Framework for Presentation layer and spring dependency injection.
* Utilized HTML5 Canvas to implement interactive graphics and animations, including chart and games, enhancing visual appeal and user engagement.
* Leveraged HTML5 Geolocation to enable the application to access the user's location, allowing for location-based features and personalized services.
* Implemented Azure SQL Database to manage and store the application data, ensuring reliable and secure data storage and management.
* Utilized Azure Blob Storage to store and manage large unstructured data objects, such as images, videos, and documents, for the application.
* Configured Azure Load Balancer to distribute traffic across multiple application instances, improving application performance and availability.
* Utilized CSS3 Flexbox and Grid Layout to implement responsive and flexible page layouts ensuring seamless and intuitive user experience across different devices and screen sizes.
* Implemented CSS3 Animations and Transitions to add visual effects and animations to the application, improving user engagement and interactivity.
* Managed the monitoring and alerting of Kafka clusters using Confluent Control Center, Prometheus, and Grafana, ensuring proactive issue detection and resolution.
* Implemented continuous integration and continuous deployment (CI/CD) pipelines for Confluent-based applications, automating testing and deployment processes.
* Designed, implemented, and managed Elasticsearch clusters for real-time search, indexing, and analysis of large-scale datasets.
* Led the development of a Java-based microservices architecture, utilizing Agile practices such as pair programming and continuous integration to ensure rapid delivery of new features and enhancements.
* Contributed to the development of a Java-based continuous delivery pipeline, utilizing Agile practices such as test-driven development (TDD) and behavior-driven development (BDD) to ensure high quality and maintainability of code.
* Integrated AEM with Adobe Analytics and other Adobe Marketing Cloud solutions, enabling comprehensive data tracking and analysis of user behavior.
* Used spring framework for Dependency Injection and integrated with Hibernate.
* Involved in developing Spring Beans and wiring their dependencies
* Leveraged Terraform declarative syntax to define infrastructure components, configurations, and dependencies in a version-controlled manner.
* Worked on Java 8 Streams and on lambda expressions.
* Created automation test scripts using data Driven framework and Page Factory model to test the web applications using Selenium WebDriver with JAVA 8 and Maven.
* Expertise in using Selenium Grid to run test scripts on different platforms and against different browsers in parallel to save time.
* Used Jenkins to execute the test scripts periodically on Selenium Grid for different platforms like desktop, tablet and mobile.
* Used Node.js Bower for UI Dependency management.
* Thorough experience in implementing Automation Tools Selenium WebDriver, JUnit, TestNG, Eclipse, Git/GitHub, Jenkins, SOAP UI and REST with POSTMAN.
* Created profiles in Maven to launch specific TestNG suite from Jenkins’s job
* Implemented SOAPUI tool to test SOAP based architecture application to test SOAP services

**Environment:** Selenium, Angular 9/8, DevOps, Kafka, Java, JavaScript, Jenkins, Git, GitHub, SOAP, REST, SOAP POSTMAN, Android, Mobile, iOS, Cucumber, BDD, Kubernetes, Agile, Oracle 10g, putty, MS word, MS XL, Quality center, WebDriver, TestNG, MAVEN, Guidewire.

**Client: Equifax Inc. Alpharetta, GA Nov 2017 – May 2019**

**Role: Java Full stack developer**

**Responsibilities:**

* Developed application on Spring framework by utilizing its features like Spring Dependency injection, Spring Beans, Spring Security, Spring JPA, and Spring Web flow using MVC.
* Implemented security functionality for various projects using Site Minder (SSO).
* The HibernateORM framework is used to interact with databases through Hibernate query language (HQL). And also worked with the Hibernate EH Cache technique for the critical objects in the application.
* Worked on Spring Framework handling major concepts like Dependency Injections, Spring IoC Containers, and Transaction Management Declarations (annotations based).
* Implemented ODBC, which is used for connecting to the Oracle database.
* Used Backbone JS to utilize its rendering functions and create controllers to handle events triggered by clients and send requests to the server.
* Effectively used Angular Directives, filters, declarative templates, service providers, and context-aware communication.
* Designed the user interface screen and its functionality as per user requirements and developed RESTful Web services in Mule ESB based on Service Oriented Architecture (SOA).
* Unit, functional, end-to-end testing is achieved using the TestNg framework.
* Integration testing methods and Behavioral driven testing in the application are implemented using Selenium and Cucumber, respectively.
* Developed an automated application using JMS for messaging and JNDI to interact with the server.
* Configured and managed public/private cloud infrastructure utilizing Amazon Web Services like Amazon Ec2, and Amazon S3.
* Configured Hibernate's second-level cache using EHcache to reduce the number of hits to the configuration table data.
* Developed a set of application functionality using CRUD (Create, read, update, delete) features of Backbone.js.
* Performed AngularJS end-to-end testing using the Protractor framework.
* Used backbone.js as Model, Widgets as Controller, and jQuery template as view.
* Implemented web interface (UI) for end-users using AngularJS, which has migrated from the existing BackBone JS application.
* Used Maven build tool to deploy the application on web servers, i.e., JBoss.
* Configured Jenkins to handle Pivotal Cloud Foundry (PCF) server application deployment and integrate with GitHub version control.
* Used HTML5, CSS, jQuery, and Ajax and performed client-side validations using JavaScript.
* Deployed the drools rules as a service in the J2EE stack environment.
* Wrote SQL Queries, PL/SQL stored procedures, triggers, and packages on Oracle database.

**Environment**: Angular JS, HTML5, CSS3, AJAX, Bootstrap, JSON, XML, Active MQ, JMS, Hibernate, DB2, SOAP-AXIS2, Restful services, JAX-RS SOA, Eclipse Java EE IDE Neon, Jenkins, Git, Log4j, DB2, Grunt, Jasmine, JBoss, Jenkins, OpenShift, Drools, Maven, TestNg, Protractor, Grunt, Selenium, Cucumber, WADL.

**Client: TD Bank N.A. Mt Laurel, NJ May 2016 – Oct 2017**

**Role: Java Full Stack Developer**

**Responsibilities:**

* + Participated in the design, development, testing and implementation of the process systems, working on iterative life cycles business requirements, and creating Detail Design Documents.
  + Worked on the JAVA Collections API for handling the data objects between the business layers and the front end.
  + Designed and developed Presentation Layer using MVC framework, JQuery, HTML, XML, AJAX, JavaScript and CSS.
  + Implemented transaction management using Spring declarative transaction management with Spring AOP concepts.
  + Used Spring dependency injection mechanism to inject application dependencies at runtime.
  + Designed and developed web-based software using Spring MVC Framework and Spring Core.
  + Used Hibernate to connect from web service and perform CRUD operations into DB.
  + Created connections to the database using Hibernate and Hibernate APIs to retrieve and store data to the database with Hibernate transaction control.
  + Designed and developed Web Services to provide services to the various clients using RESTful.
  + Wrote SQL, PL/SQL queries and used DB2 stored procedure, functions, triggers, cursors, objects, sequences etc.
  + Developed shell scripts for monitoring and tuning of JBoss Server.
  + Developed application using Eclipse IDE.
  + Implemented Azure Monitoring and Analytics with Azure Monitor to capture and analyze application performance, logs, and metrics, improving application troubleshooting and optimization.
  + Used Maven build file to build and deploy the application.
  + Worked on SVN Version Control Systems.
  + Used Log4J to capture the logging information and JUnit to test the application classes.

**Environment:** Java 8, JSP, JavaScript, AJAX, HTML, XML, JQuery, Spring MVC Framework, Hibernate, Log4J, JUnit, SVN, Maven, JBoss, Web Services, RESTful, SQL, PL/SQL, DB2, SOAP, JPA and Microservices. AWS, Reactive programming, Apache Spark, SQL, NoSQL and Cassandra.

**Client: Citi Bank, Texas Oct 2014 – Apr 2016**

**Role: Java J2SE/J2EE Developer**

* + Developed Code using Strut’s framework, based on the MVC design pattern
  + Utilized the AngularJS directives, factory, service, and filters. Created number of custom directives to reuse them across the controller.
  + Worked on backend logic using Servlets, EJB, Hibernate and JDBC.
  + Developed page specific elements, handlers, web beans, view helper classes, JSP pages &amp; fragments by using design patterns and Java standards.
  + Deploying and testing on JBoss Server.
  + Developed Microservices using Spring MVC, Spring Boot, Spring Cloud, Spring AOP and Dependency Injection and JPA. Used JDBC Connection, Statement to retrieve Data from RDBMS.
  + Involved in debugging the product using JIRA Bug Tracking
  + Involved in developing the UI pages using HTML5, CSS3, JavaScript, JSON, jQuery and AJAX.
  + Implemented multiple high-performance Mongo DB replica sets on EC2 with robust reliability.
  + Implemented logging using log4j.
  + Deployed the application in JBOSS Application Server.
  + Developed Servlets and Worked extensively on My SQL.
  + Worked with MySQL for SQL log and Workbench.
  + Written jQuery Validations for the User Frontends.
  + Maintenance of data in different Oracle Database and environments using TOAD.

**Environment:** Windows XP/2000, Java 8, J2EE, Struts 1.1, EJB 2.0, Servlets, Session Beans, Ant, JavaScript 1.3, JSPs, HTML5, CSS3, jQuery, JSON, Oracle 8i, Ajax, Mongo DB, Soap, Toad, Eclipse 3.1, Web Sphere Application Server 5.1, Web logic, Apache CXF, MySQL, XSLT, Junit, Log4j, Rational Clear case, Clear Quest.

**Client: AT&T, Georgia Mar 2013 – Sep 2014**

**Role: Java developer**

**Responsibilities:**

* Implemented various design patterns such as Business Delegate, DAO, DTO, Service Locator, Session Facade, View Helper, and Value Object.
* Developed Hibernate mapping files and configurations for database persistence.
* Utilized Java Persistence API (JPA) for data persistence.
* Utilized JUnit for unit testing, integration testing, and production testing.
* Used ANT Builder for code building and Log4j for logging.
* Integrated Spring Framework with Hibernate for dependency injection.
* Used SVN as the Version Control System.
* Utilized Spring MVC architecture for presentation and business layers.

**Environment:** Java, Servlets, spring, Hibernate, Restful web services, Apache, JSON, XML, Tomcat Server 6 and MySQL