**Sr. Java Full-Stack Developer**

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**PROFESSIONAL SUMMARY:**

* Around**10 years**of**full stack development**experience in all stages of life cycle, referring to **Design, Development, Implementation** and **testing** of **web based applications**.
* Expertise in designing and developing server-client and web based applications in **Java/J2EE**technology using Object Oriented Technology.
* Experience in Developing **User Interface (UI) Rich Web Applications** using Front End/User Interface (UI) Technologies using **HTML5, DHTML, CSS3 (SaaS, LESS) frameworks, Bootstrap, Java script (ES5 & ES6), jQuery, AJAX** by managing all facets and pipelines of application.
* Good Understanding on using various **XML technologies** like **XPath, XQuery, XSLT, XSD, SAX, DTD/Schemas, DOM and JAXB.**
* Experience in IT industry as Engineer with proven expertise in Automation, Build/Release Engineering and Software development involving **cloud computing platforms like Amazon Web Services (AWS), Azure and Google Cloud (GCP).**
* Worked with **React.js Virtual DOM**and**React views**, rendering using components.
* Implemented various screens for the front end using **React.js** and various predefined components from **NPM (Node Package Manager), bower and redux library for Dependency management.**
* Strong Experience in **JavaScript MVC** design pattern such as **Angular JS, Backbone JS and**
* **Ember JS, Knockout.js.**
* Having good Experience in **MVVM** design pattern such as **Angular 2.X and Angular 4.X.**
* Developed multiple **Angular 4.0 components** which are compatible with latest versions of **typescript, Angular CLI.**
* Strong experience in developing **Single Page Application (SPA), using MEAN (Mongo, Express, Angular and Node) stack.**
* Hands on experience in developing **server - side JavaScript frameworks** using **Node JS (Hapi JS, Express JS)** to build event driven, non-blocking I/O model **web applications**.
* Hands on Experience with **build tools** as **task runner using Gruntjs, Gulp Server, Yeoman** to perform repetitive tasks of **Modification, compilation, Unit testing**.
* Proficient in working with web application's **UI testing frameworks** such as **Karma, Jasmine, and Protractor for Angular JS, Mocha and Chai for React JS and Backbone JS**.
* Good understanding **Core Java SE 8** concepts like **Streams API, Time API, Functional Interfaces, Multithreading, Transaction Management, Exception Handling, and Lambda functions, Generics and Collection API.**
* Acquainted in programming skills with an experience of developing an n-tier applications, and enterprise applications using technologies like **JAVA, J2EE, spring, Servlets, JSP, JDBC, Mongo DB, and Oracle**which makes aclear differentiation between layers.
* Good programming knowledge using**Java1.7/1.6**, **Spring 3.x, Spring MVC, Hibernate 3.2, JPA 2, Servlet, Struts 2, Java Beans, JDBC, JTA, JSP.**
* Adept in designing and developing **spring**, **Struts**, **MVC, Java/J2EE** based framework.
* Good knowledge on working with **Relational database ORM frameworks like PostgreSQL, MySQL, DB2, Oracle 13c/11g, Ibatis and NoSQL DB (Mongo DB and Cassandra, Couch DB, Redis, Dynamo DB).**
* Expertise to interact with **ORM frameworks** like **Hibernate, Spring Data, iBatis and JPA**.
* Experience on **NoSQL based ORM frameworks**like**Mongoose Connector and Cassandra Node Driver.**
* Experience in developing **enterprise applications** using **frameworks** like**spring, Struts, Servlets, JSF (Prime Faces).**
* Proficient in implementation of **spring frameworks** like **Spring MVC, Spring IOC, Spring REST, Spring AOP, Spring transaction Management, Spring Data, Spring DAO, Spring Batch, Spring Security and Spring Boot.**
* Worked on **micro services** based architecture using **Spring Boot interacting** through **REST API.**
* Worked with **WSDL in implementing SOAP services using Axis-2 and Apache CXF Framework**.
* Worked on projects implementing **RESTful services (JAX-RS, Spring Boot), SOAP (JAX-WS, Apache CXF, WSDL, Apache Axis2) and configured using Swagger and WADL.**
* Hands on experience with **design patterns** like **MVC, Business Object, Value Object, Singleton, Factory Pattern, Business Delegate, Session Facade, Service locator, Front Controller and DAO pattern.**
* Authenticated Users accessing **RESTful services using Oauth 2.0, OID, OIDC and JWT (Jason Web token).**
* Integrated security functionality using **spring security** and **Site minder (SSO).**
* Good knowledge on **Drools Rule Engines** which corresponds to validating **BRMS (Business Rules Management System)**.
* Experience in using **configuration management** tools like **Puppet, Chef and Docker**.
* Experience in **messaging queue services** like **IBM MQ. Rabbit MQ, Active MQ and Apache Kafka.**
* Experience with **build tools** like **Ant, Maven, and Gradle for building and deploying applications** to different environments.
* Excellent in deploying the applications in **AWS as EC2 instances and create snapshots for the data that have to be stored in AWS S3.**
* Experience with **UNIX and Shell scripting**.
* Solid experience **in Apache Subversion** (**SVN**) and **Jenkins** and **Bamboo** Continuous Integration Server. **Integration testing** of the applications using **Selenium** and **behavioural testing** using **Cucumber**.
* Implemented Test Driven Environment (TDD) Used **JUnit, Mockito, and Sonar for Unit testing**.
* Implemented **Spring Cloud**-**Netflix OSS Stack** along with using **Ribbon** for client-side load balancing, **Netflix Zuul API Gateway** with **Eureka service registry** for reverse proxy infrastructure and **Hystrix Circuit Breaker** for fault tolerance.
* Utilized Amazon Web **Services (AWS) EC2 to deploy Docker containers with both monolith and Micro-Services architecture.**
* Designed and created highly scalable, highly available, fault tolerant, highly secured, distributed infrastructure (IAAS) using **AWS EC2 instances, S3, EBS, ELB, API Gateway, Route 53, Cloud Front, Auto Scaling, Elastic Bean Stalk, VPC, Cloud Watch, Cloud Trial, RDS, SNS, SQS**.

**Technical Skills:**

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| **Programming Languages:** | C, C++, Java (J2SE, J2EE1.6/1.5), Core Java, SQL, PL/SQL, UML2.0 |
| **Web Technologies:** | J2EE, Servlets 2.4/2.5, JSP 2.0/2.1, JSTL, JDBC 2.0/3.0, Filters, Listeners |
| **Frontend Technologies:** | HTML4/5, XML, Java Script v1.8, TLD, CSS, JQUERY, AJAX, BackboneJS, AngularJS2, NodeJS, Ember JS, JSON, React JS, Typescript. |
| **J2EE Technologies:** | JSP, JDBC, JNDI, Web Services, BPM - Activiti, Hibernate |
| **Tools:** | Photoshop, Illustrator, InDesign, Fiddler, Firebug, Maven, ANT |
| **Web/Application Servers:** | WebLogic 7.0/8.1/9.0/10.0, IBM WebSphere 4.0/5.5, JBoss 4.0.5, Apache Tomcat 5.5/6.0 |
| **Software Development:** | Waterfall Model, V-model, RUP, Agile, Scrum, Test Driven Development (TDD) |
| **Web services:** | Soap UI, WSDL, RESTful |
| **Version controllers:** | SVN, CVS, Clear Case, GIT |
| **Testing:** | Junit 4.1.2, JUnit-Perf, JMock, Cactus, Jasmine, Karma |
| **XML Technologies:** | XML, XSL, XSLT, DOM, and JAXB |
| **Databases:** | Oracle 8i/9i/10g, MySQL 4.x/5. |

**Professional Experience:**

**Title: Java Full Stack Developer Oct 2022 - Present**

**Client: Sunera Technologies, Chicago IL**

**Responsibilities:**

* Participated in **Agile (Scrum) methodology** and Involved in **Design, development, System testing and User Acceptance Testing.**
* Working Experience in Messing Platforms such **as RabbitMQ, Kafka, AWS SQS. Open Shift and Red Hat Rules Engine.**
* The application is based on **Micro Service Oriented Architecture** using **Angular 4.0**and **Cassandra DB and MySQL**to develop**Single Page Applications (SPA).**
* Implemented **Angular 4.0 directives, expressions, routing capabilities** for **bookmarking**, **filters, validations** and **Angular UI components, Components, ng-Modules, Providers, Services** and **classes** for **navigation** respectively.
* Worked with **Angular CLI** and **Typescript** in **Angular 4.0** to create **Controllers** and **Angular components** for the Web Pages.
* Developed **AWS S3 to copy project artifact into S3 bucket.**
* **Optimized performance** is achieved by **Angular 4 Lazy Loading**.
* Used **Spring Boot** which is radically faster in building cloud **Micro Services** and develop Spring based application with very less configuration.
* Extensively used **React-Router** techniques **Axios service** to retrieve data from server synchronously.
* Involved to implement various screens for the front end using **React.js**and used various predefined components from **NPM (Node Package Manager)** and **redux library**.
* Implemented **Elastic Search** for caching to enhance the performance of application.
* Implemented **Node JS** as a server-side proxy for an observing various response time.
* Implemented modules into **Node JS** to **integrate** with **designs and requirements**.
* Used **Node Package Manager (NPM)** to manage modules & used it to install useful tools as **Grunt and Express**.
* Used **Express JS** which is fast, assertive, essential and moderate web framework of **Node.js** that helps manage a **sever** and **routes**.
* Worked with **Express JS** which gives **MVC Structure** to the **Node JS.**
* Built-in **AJAX HTTP Service** with observables is used extensively for making quick and **incremental updates to UI** of the application.
* Experience in Server infrastructure development **on AWS Cloud, extensive usage of, Elastic Beanstalk, Dynamo DB, S3, Route53, SNS, and SQS.**
* Applied to the **business modules integration** using **Spring Boot**, **Cassandra DB**.
* Worked with **Cassandra Node Connector** for database persistence to interact with Cassandra.
* Worked in integrating **JMS** with **SPRING BOOT** by providing an instance which is embed with **Active MQ**.
* Implemented**Spring Netflix Zuul API gateway**and**Eureka service registry**for**reverse proxy of API’s.**
* Deployed frontend application using **AWS S3**and**configured CORS**to consume **RESTful services** from another domain.
* Deployed **Spring Boot based micro services**on **Docker containers**using **Amazon ECS.**
* Experience in introducing **Docker** utilizing Docker tool compartment. Condition provisioning arrangements **utilizing Docker**.
* Authenticating Users and to provide the security to **Restful web services**using **OAUTH 2.0.**
* Using **Swagger Framework**, actualizing the **Restful API** and **Swagger** gives the rich UI to test API.
* Worked on unit test cases using **Karma** and **Jasmine** on client side.
* Wrote comprehensive Unit test cases using **JUnit** and **Spock**.
* Load data from various data sources into HDFS using **Kafka**.
* Deployed the application **on Amazon Web services (AWS) and used it to provide a large computing capacity for scalable solutions.**
* Worked with the configured and maintained **Jenkins** to implement the **CI/CD** process.
* Created splunk dashboards to highlights key business metrics such as transaction volume and average processing time as well as to measure the performance of the third party systems.

**Environment:** Angular 4.0, Node JS, HTML5, CSS3-SASS, Twitter Bootstrap4.0, ES6 JavaScript, React-Axios, AJAX HTTP Service, Typescript, Spring boot, JPA, jQuery, OAuth2.0, Apache Kafka, Active MQ, Jenkins, Bamboo, Log4j, MY SQL, CassandraDB, Elastic search, Redis, NPM, Web pack, RESTful, EC2, AWS S3, EBS, Elastic Load Balancer, Junit4, Docker, Spock, Karma, Jasmine, Eclipse Java EE IDE.

**Title: Java Full Stack Developer July 2021 – Sep 2022**

**Client: Lincoln Financial Group,** [**Radnor, Pennsylvania**](https://www.google.com/search?sxsrf=APwXEdfs_tWgcdYeaOIRYFhillt_xWhlqA:1680026484857&q=Radnor,+Pennsylvania&si=AMnBZoG3cRyxvViEiVWeqgrn-CuWcnxp6_6_G7EH225wAKYHQlB4tTDr6CStwoPEBp9QScwtQuzoHTWNEopDyBlsr2dhnxF_A5DJUFvFeSLs8gnOWOpYDpBDGARAGWoy-s8ZB7AmeuVY2Tl3lr7z4SggVjSi-pNq6yzjbEkoMXWPfE7NfdDGJJKg47RI38-GZYjHCwnL29ueO2_78GjtURc_uMjziso4EA%3D%3D&sa=X&ved=2ahUKEwjhiN-umv_9AhULR2wGHZ13BH4QmxMoAXoECGIQAw)

**Responsibilities:**

* Developed a **Micro Service Oriented application** with **React JS** in the front end and **Spring Boot services**.
* Developed and implemented views using **HTML5, CSS3/LESS**, **Bootstrap 4.0**, **AJAX**.
* Worked on responsive design and developed a single **ISOMORPHIC responsive website** that could be served to desktop, Tablets and mobile users using **React.js**.
* Designed, built, and deployed a multitude application utilizing almost **all of AWS stack (Including EC2, S3, Dynamo DB, SQS and EMR), focusing on high-availability, fault tolerance, and auto-scaling.**
* Worked with **React JS** to build Bootstrap components for responsive UI Objects and linked with API data to view render the virtual DOM dynamically.
* Implemented various screens for the front end using **React.js** and used various predefined components from **NPM (Node Package Manager)** and **redux library**.
* Used React**Router**to create a **Single Page Application**(SPA) which can bind data to specific views and synchronize data with server.
* Implemented **flux pattern** by using **redux framework** as a core dependency.
* Used **Redux Framework architecture** (like **Reducers, Containers, Saga**) for integrating the data with React-Native Application and created and used **Reducers** to modify **Store** State Tree.
* Pleasant Experience in **React.js** for creating interactive UI's **using One-way data flow, Virtual DOM, JSX, React Native concepts.**
* Injected **Angular4** built-in http service to custom services to communicate with backend with RESTful APIs and Used **Pipes** to format and sort data displayed in the templates.
* Used **Angular CLI** to generate components, services, and filters and compiled in different environments.
* Used **Axios AJAX request** to retrieve data from server simultaneously.
* Performed Unit testing on applications using tools **Mocha** and **Chai** to test **React JS** components.
* Used the fundamentals of **Java 8** like parallel streams and filters through **lambda expressions** to handle the searching. Build **Kafka/RabbitMQ in AWS and implemented Producer Web services to process the messages to/from Queue.**
* Developed **Restful** web services using **JAX-RS** in **JERSY** to expose the data to Spring module.
* Used complete **annotation driven**approach to develop the application using **Spring Boot**and was also involved in setting up the **spring bean profiling.**
* Developed and deployed **Micro Services** based applications using **Spring Boot and Spring Cloud.**
* Expertise in using **Spring Security Module** by utilizing its **Site Minder, OAuth 2.0 Configuration, Open ID Connect for Enterprise Application Authentication and Authorizations.**
* Better understanding of using **Spring Cloud - Netflix OSS** stack for microservices deployment and auto configurations like **Ribbon, Hystrix, Zuul with Eureka service registry**.
* Used **Spring IOC** for specifying the dependencies of the objects using dependency injection.
* Implemented **ORM frameworks** such as **Spring Data.**
* Used **WADL** (Web Application Description Language) for modelling the resources. Implemented transaction management in the application by applying **Spring AOP** Framework.
* To achieve modularity and to handle cross cutting concerns like **transaction management,** logging and profiling **Spring AOP** is used.
* **Integrated Open stack API with Amazon EC2 cloud-based architecture in AWS.**
* Used **Hibernate** as the **Object-Relational Mapping (ORM)**tool to access the persistent data.
* Worked with **spring batch**to convert xml files to data base records.
* **Quartz scheduler** is used to schedule jobs in the application.
* Configured **JBOSS** Application server and used **Oracle** database.
* Developed Mean Stack from scratch including **Mongo DB server (Mongoose Connector)** setup and **Express JS server development**.
* Used a highly durable messaging system called **Apache Kafka** for asynchronous exchange of vital information between multiple business applications.
* Behavioural and Integration testing is done using **Cucumber** and **Selenium** respectively.
* Deployed and Monitored **Micro Services** Using **Pivotal Cloud Foundry** and managed Domains and Routes with the **Cloud Foundry**.
* Published message services using **Spring AMQP’s Rabbit Template** and subscribes to the messages on a POJO using Message Listener Adapter.
* Worked with **Jenkins** Continuous Integration and Continuous Deployment (CI/CD).
* Configured **Web pack** to execute linters, magnifiers, pre/post-processors, tests, transpires, etc. based on build target.
* Creating, managing, and performing container-based deployments using **Docker images** containing Middleware and applications together.
* Maintenance of splunk environment with multiple indexers.
* Deployed the **drools** rules as a service in **J2EE** stack environment.

**Environment:** JavaScript, React JS-Redux, HTML5, CSS3-LESS, AJAX, Bootstrap, jQuery, Spring Security, Rabbit MQ, Spring Data, Spring Batch, Quartz Scheduler, Hibernate, MicroServices, Restful services, Eclipse Java EE IDE, Jenkins, Spring Cloud-Netflix, Splunk, Node Package Manager(NPM), Oracle DB, MySQL, Spring Data, Spring AOP, Spring Transaction Management, Spring Batch, RESTful Services, Swagger, Jersey, Docker, Ribbon, JUnit, Mokito, Mocha, Chai, Selenium, Cucumber, Cassandra DB, Cassandra Node Connector, Gradle, JBoss, WADL, Web pack, Pivotal Cloud Foundry(PCF), Drools, IBM MQ, Kafka.

**Title: Java/J2EE Developer Oct 2019 – Dec 2020**

**Client: Blue Pal Solutions, India**

**Responsibilities:**

* Designed and developed the application using **agile methodology** and followed TDD, Scrum.
* Worked on Enhancements and Post Production Fixes for **Employer Resource Information Centre (ERIC)** Application.
* The enhancements required us to develop new correspondences and fix the old correspondences.
* Implemented Hibernates’ Lazy default fetch plan for generating proxies and collection wrappers and created fetching strategies for minimizing the number of SQL statements.
* Designed and Developed the **UI Framework** built using **JSF Apache My Faces, Ajax4JSF.**
* Involved in writing **JSF Backing Beans**for controlling the UI and writing custom components and validators.
* Extensively used Java best practices and implemented several Core **design patterns** like **Singleton, Data Access Object (DAO), and Business Delegate**etc.
* Used Asynchronous **JavaScript** and **XML (AJAX)** for better and faster interactive Front-End. Configured Navigation rules in the **JSF** configuration files to add new functionality to the application by writing new **JSPs**.
* Responsible for configuring and deploying the builds on **WebSphere** App Server. Implemented **J2EE** design patterns such as **Session Facade, Factory, DAO, DTO and Proxy**.
* Wrote data Components for ERIC application wrote and called **Stored Procedures** using **Java, HQL, and Hibernate**.
* Developed user interface using JSP with JavaBeans, JSTL and Custom Tag Libraries, **JS, CSS, JQuery, Node.js** **and HTML** to speed the application.
* Worked on **Java Beans** and other business components for the application and implemented new functionalities for the ERIC application.
* Used **Mongo DB** in backend to persistent data into database and written SQL/Mongo queries to access/update the data from/ to the database.
* Worked on **Adobe Form Server** and **Extension Rights Server** for generating correspondences as PDF and PDF forms are submitted online.
* Developed Business components using Java Objects, Core Java, Multithreading, Servlet, and JSP.
* Used **Java Architecture for XML Binding** (**JAXB**) for marshalling and un-marshalling java objects and XML. And **Serena Dimensions** was used for the version control of source code.
* Developed report program to migrate project definitions and WBS elements from GSF system IES system.
* **Log4j**frameworkwas usedto debug and trace the application.
* Experience in creating Tables, Indexes, Constraints, Users Defined Functions, Views, Stored Procedures, Triggers and complex SQL   statements.
* Experienced in writing complex SQL   Queries, Stored Procedures, Triggers, Views, Cursors, Joins, Constraints, DDL, DML and User Defined Functions to implement the business logic and created clustered and non-clustered indexes.
* Experience using different RDBMS (MySQL, Oracle, MS SQL Server) and REDIS cache.
* Designed and developed a generic aggregation client SDK library, which interacts with Redis and provide the short term aggregates for incoming scoring requests.

**Environment:** Java 1.5, J2EE 1.5, JAXB, XML, XSD, IBM WebSphere, IBM DB2, IBM MQ, IBM Rational Application Developer (RAD) 7.0, JSF, Adobe LiveCycle Designer 7.0, Spring Web flow, Ext.js, XDP, Form Server, Aqua Data Studio, JavaScript, log4j, Junit, JMS.

**Title: Java/J2EE Developer Aug 2016- Sep 2019**

**Client:Sparsh technologies, India**

**Responsibilities:**

* Understanding Use requirements participating in design discussions, implementation feasibility analysis both at front-end and backend level, documenting requirements.
* Application Modelling, developing Class diagrams, Sequence Diagrams, Architecture / Deployment diagrams using **IBM Rational Software Modeller**and publishing them to web perspective with **Java Doc**.
* Participation did in Design Review sessions for development / implementation discussions.
* Designed & coded Presentation **(GUI) JSP’s** with Struts tag libraries for Creating Product Service Components (Health Care Codes) using **RAD**.
* Developing **Test Cases** and unit testing using **Junit.** Solving QA defects, scheduling fixes, providing support to production application.
* Coded Action classes, Java Beans, Service layers, Business delegates, to implement business logic with latest features of **JDK1.5** such as Annotations and Generics.
* Extensive use of **AJAX** and **JavaScrip**t for front-end validations, and JavaScript based component development using **EXT JS** Framework with cross browser support.
* Appropriate use of Session handling, data Scope levels within the application.
* Designed and developed **DAO** layer with Hibernate3.0 standards, to access data from **IBM DB2** database through **JPA** (**Java Persistence API**) layer creating **Object-Relational Mappings** and writing **PL/SQL** procedures and functions.
* Integrating Spring injections for **DAOs** to achieve Inversion of Control, updating Spring Configurations for managing Java objects using call-backs.
* Application integration with Spring Web Services to fetch data from external Benefits application using SOA architecture, configuring **WSDL** based on **SOAP** specifications and marshalling and un-marshalling using**JAXB.**
* Prepared and executed **JUNIT** test cases to test the application service layer operations before **DAO** integration.
* Creating test environments with **WAS**for local testing using test profile. And interacting with **Software Quality Assurance (SQA)** end to report and fix defects using Rational Clear Quest. Implemented **Spring Web Flow** for defining and executing UI flow in the application for the Order Guide module.
* Creating views and updating code to IBM Rational Clear case for Source code control.

**Environment:**Java JDK 1.5, JSP, JSP Custom Tag libraries, JavaScript, EXT JS, AJAX, XSLT, XML, DOM4J 1.6, EJB, DHTML, Web Services, SOA, WSDL, SOAP, JAXB, Spring Webflow, IBM RAD, IBM WebSphere Application server, IBM DB2 8.1, UNIX, UML, IBM Rational Clear case, JMS, Spring Framework, a 3.0, PL/SQL, JUNIT 3.8, log4j 1.2, Ant 2.7.

**Title: Java Developer Jun 2012 - July 2016**

**Client: Cigniti, India**

**Responsibilities:**

* Involved in Daily Scrum (**Agile**) meetings, Sprint planning and estimation of the tasks for the user stories, participated in retrospective and presenting Demo at end of the sprint.
* Involved in the front end using **JSP, JSTL JQuery, Servlets, HTML, JavaScript, and AJAX**.
* Designing and developing Web UI using **JSP**, **Servlets**, **Strut**,**HTML** and **JQuery**.
* Designed and deployed the Java Beans in **XML** and retrieved the data from database using **DAO**.
* Developed the application using **Struts Framework** with respect to Model View Controller architecture.
* Used the Struts Validation and Tiles Framework in the presentation layer.
* Developed **Web Service** client interface with **JAX-RPC** from **WSDL** files for invoking the methods using **SOAP.**
* Extensively worked on **SOA** and **Web Services** to get the data from third party systems and Configured **JMS** queues on server.
* Configured **struts**-**config.xml**, and**web.xml** on the application.
* Responsible for development of configuration, mapping and Java beans for persistent layer (Object-Relational Mapping) using **Hibernate.** Used **JDBC, SQL** for storing and accessing data from **Oracle** and developed **SQL**scripts.
* Involved in **unit testing**, test case reviews and code reviews in accordance with applicable development standards.
* Used **TFS** for code version control and issue tracking.
* Developed server side application which handles the database manipulation with the back-end**Oracle**database.
* Interacted with BA team to get the requirements.
* Involved in design and development and **scrum** meetings.
* Providing **production support** for the application stability.

**Environment:**Java, Struts, JDBC, JQuery, HTML, Ajax, CSS, JavaScript, XML, XSLT, Oracle, Log4j, Hibernate, Eclipse, JUnit, Tomcat Server, Maven.