**Hari Babu**

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

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**PROFESSIONAL SUMMARY:**

* Over 8 years of experience in delivering enterprise solutions in multiple domains like **E-commerce, Finance, Telecom, Insurance, Health** and other **related domains**.Expertise in conceptualizing, designing and coding technical solutions using Java/J2EE and UI technology stacks to satisfy complex business problem statements.
* Expert in Various Agile methodologies like **SCRUM, Test Driven Development(TTD), Incremental** and **Iteration methodology, Pair Programming, Agile Development** &**Testing using Software Development Life Cycle.**
* **Experienced in Full stack UI technologies using Gruntjs, Gulp Server, Yeoman generator for Angular.**
* Expert level skills on **JSON, HTML, DHTML, CSS, Tiles, Tag Libraries** and UI frameworks - **Twitter Bootstrap, Materialize CSS, jQuery Mobile**.
* Experience with **jQuery, Ajax, JavaScript, Nodejs, ReactJs, BackboneJs, AngularJs, Angular 2.x/4.x** and Client-side validations.
* Experienced in Java **Web-based, Desktop Based Development** with Concepts of **Object Oriented Design** (OOD), **Object Oriented Analysis** (OOA), **Object Oriented Programming** (OOP) and its implementation.
* Expertise in the implementation of **Core Java** concepts of Java**,** J2EE Technologies: **JSP, Servlets,** **JSF**, **JSTL**, **EJB** transaction implementation (CMP, BMP, Message-Driven Beans), **Struts, Spring, Swing, Hibernate, iBatis, Java Beans, JDBC, XML, Web Services, JNDI, Multi-Threading, Data structures**.
* Experience in Spring Modules **Spring MVC, AOP, IOC, Spring Boot, Spring Microservices, Spring REST, Spring Eureka, Spring Ribbon, Spring Netflix, Spring Hystrix**, **Spring Dashboard, Spring Zuul, Spring Security**.
* Experienced in developing web-applications using various design patterns, including **session facade, MVC, Data Access Object, Singleton and Factory Pattern**.
* **Proficient in using Amazon Web Services (AWS). Extensive experience focusing on services like EC2, Elastic Beanstalk, CloudWatch, CloudFront, CloudFormation, IAM, S3, RDS, ElastiCache, SNS, SQS, AMI.**
* Experience with **Docker** containers, leveraging Linux Containers and AMI's to create **Docker Images/ containers**.
* Experience with messaging systems like **Kafka, Kafka event sourcing.**
* Worked on (JMS) MQ's like **Rabbit MQ**, **IBM MQ** and **Active MQ**.
* Expertise with employment of **Spring Kafka** and **Zookeeper** apart from **JMS** as messagingservice.
* Good Working Experience in Apache Frameworks like **Apache CXF, Apache Camel** and **Apache Velocity.**
* Experienced in building Web Services using **SOAP** and **RESTFUL**.
* Expertise in **XML** technologies such as **DTD/Schemas, DOM, SAX, XSLT, XPATH, Castor.**
* Experience in configuring and deploying the applications on **Tomcat 5.x/4.x/3/x**., **GlassFish,** **WebSphere 6.x/5.x/7.0**, **WebLogic 9.x/8.x/7.x/6.x,** and **JBoss** Servers.
* Experienced in developing **UNIX** **shell scripts** for batch processing.
* **Experience in database modeling, design and development of PL/SQL stored procedures, packages in relational databases: Oracle 9i / 10g / 11g, SQL Server 2005/2008, DB2, PostgreSQL and MySQL.**
* Strong experience with **MongoDB** development (reports, schema design, map reduce functions) and migrations from **SQL** relational databases to **NoSQL** databases like **MongoDB**, **Cassandra** and **CouchDB**.
* Good Experience in software configuration management using **CVS, GIT** and **SVN.**
* Experienced in performing **unit testing** using **JUnit, Test NG, Mockito**, integration and deployment of applications using tools such as **ANT**, **Maven, Gradle, Jenkins** & debugging through **log4j** **and Splunk.**
* Created Test automation framework using **Cucumber** and **Selenium** web driver.
* Knowledge of writing rules directly in the **Drools Rule Language** (DRL), and decision table.
* Expertise on UI testing with **Karma, Mocha, Jasmine** and **Chai**.
* Experience using secure authentication mechanisms like **LDAP, SASL** and **Kerberos v4.**
* Good knowledge on dependency management tools such as **NPM** and **Bower**.
* Developed Interactive graphs using **D3.js** with JSON data.
* Knowledge on tools like **BigF5, Gomez.**

**TECHNICAL SKILLS:**

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| **Languages** | **Java 1.5/1.6/1.7/1.8, J2EE, UNIX Shell Scripting, Python 3.6.0, Scala 2.12.1, C, C++** |
| **Web Technologies** | **HTML/HTML5, DHTML, XML, CSS, Bootstrap, JSF, JavaScript, SERVLETS 3.1, JSP 3.0, JavaBeans 3.0, Java Servlets API 3.0, AJAX** |
| **Frameworks** | **Spring 4.3, Hibernate 4.3, Angular JS 1.0/1.5/2.0, Struts 2.x/1.x, Log4J** |
| **Application/Web servers** | **Apache Tomcat 8, IBM WebSphere 8.x/9.x, Jetty, Jenkins 2.50, JBoss, Tomcat 5.0/6.0/7.0, Glassfish, WildFly** |
| **Relational Databases** | **Oracle 8i/9i/10g/11g, SQL server 2012/2014/2016, MySQL 5.7, DB2 11.1** |
| **NoSQL Databases** | **MongoDB, Cassandra, Couch DB** |
| **Internet Technologies** | **HTML 5, JavaScript 1.8, XML 2.0, CSS 3 and CSS 4, JQuery 2.11, Angular JS 2.0, BackBone.JS 1.3.1, Polymer.JS, Node JS 6.0.** |
| **Web Services** | **JAX-WS, JAX-RPC, JAX-RS, SOAP, WSDL, UDDI, REST, SOAP UI** |
| **Cloud Environments** | **Azure, AWS, Netflix Eureka, Mesos.** |
| **AWS Skills** | **EC2, Simply Storage Service, Cloud Front, Relational Data Base, Virtual Private Cloud, Route 53, Cloud Watch, Cloud Trial, Identity and Access Management, Simple Notification Service, AWS EMR, AWS CLI.** |
| **Operating systems** | **Windows, MS-DOS, UNIX, Mac OS, Linux and Ubuntu** |
| **Testing Tools** | **Junit 4.12, Win Runner, Jenkins, Selenium WebDriver/Grid, JIRA 7.0., Bugzilla 4.4.12, Jasper Reports 6.0** |
| **Methodologies** | **Agile, waterfall, TDD (Test-Driven-Development), Scrum, SDLC** |
| **Developer IDE Platforms** | **Eclipse, Edit plus, Notepad ++, TEXT PAD, JBuilder, Net Beans 8.0.2, Intellij 2017.1, Spring Tool Suite (STS) 3.8.3, GITHUB 2.12.0** |
| **Build Tools** | **Ant 1.10, Maven 3.3.9, Gradle 3.4.1** |
| **Case Tools** | **Rational Rose, UML, OOAD, RUP** |

**PROFESSIONAL EXPERIENCE**

**Client: ACT, Des Moines, Iowa Feb 2016 – Till Date**

**Role: Sr. Java Full Stack Developer**

**Description:**ACT is a non-profit organization which mainly designs the test application which is used as an entrance exam to assess high school students for college readiness. The project deals with improvement& security of the existing test application for college admissions.

**Responsibilities:**

* Involved in various phases of **Software Development Life Cycle (SDLC)** of the application.
* Developed applications using **Angular2,** **Java8** and new features of java (lambda expressions).
* Developed screens using **HTML5, CSS3, SASS, JavaScript, jQuery** and **AJAX.**
* Design and developed the application using framework **Angular 2** with **HTML5, CSS3** and **Typescript.**
* Developed UI components using **Angular 2 dependency Injection**, Models, data binding and controllers.
* Implemented **Angular 2** Router to enable navigation from one view to another.
* Used **Protractor** to perform **End to end testing** for single page application developed using **Angular 2.**
* Developed Application to asses **JSON** and **XML** from **Restful** web service from consumer side using **Angular 2.**
* Experience with Responsive Web Design, **Bootstrap** and **Plygrid** framework.
* Developed various generic **JavaScript, Angular functions** to implement client-side validations.
* Involved in developing **Thread** Safe blocks for **multithread** access and distributed transaction management.
* Created and injected **spring** services, controllers and DAOs to achieve **dependency injection**.
* Heavily used **Spring Inheritance, Auto-wiring, Core Container, Security, AOP,** **Spring Quartz** for scheduling tasks to generate reports and emails to clients.
* Developed Persistence layer using **Spring Data** to interact with the Database.
* Developed Spring **Restful/Microservices** and implemented **Spring Restful/Micro Services and implemented Spring Eureka, Netflix, Ribbon** as part of **Services Discovery** usin**g Apache Axis**.
* Implemented **Spring MVC** flow to interact with different modules and extensively used **Spring AOP** and **Dependency injection** during various modules of project.
* Developed **Microservices** with **Spring Eureka** to retrieve API routes for the entire cluster. Using this strategy each **spring service** in a cluster can be load balanced and exposed through one API gateway.
* Used **Micro service** architecture with **Spring Boot** based services interacting through a combination of **REST** and **Apache Kafka** message brokers.
* Implemented **Spring Circuit breaker** pattern, integrated **Hystrix dashboard** to monitor **Spring micro services**.
* Implemented Authentication & Authorization with Site Minder and **Spring security**.
* Implemented **REST** based web services using **JAX-RS** annotations, **Jersey provider** and consumed using **HTTP** services from **angular 2** modules.
* Used Amazon Web Services (**AWS**) like **EC2, S3**, **cloud watch** and **Elastic Bean Stalk** for code deployment.
* Writing Entities in **Java, Play Framework** along with named queries to interact with database.
* Experience in Updating, Modifying queries in **Oracle 11g.**
* Composed and executed **MongoDB** scripts to insert and update **NoSQL** database and reporting.
* Used **GWT** and **Amazon AWS (EC2/S3/EBS)** for prototyping and subsequent evaluation**.**
* Developed quality code adhering to **Scala** coding Standards and best practices.
* Worked with **Kafka Cluster** using **ZooKeeper**. Developed Applications using **Rule Engines-Jboss Drools** 4.x, **Work flows, Human tasks** to implement Business rules validations.
* Developed data transformer for converting legacy data from Source tables to avro format and fed into **Kafka** using **Camel.**
* Worked on creation of custom **Docker** container images, tagging, pushing images, integration of **Spring boot**.
* Created the **Docker** containers and **Docker** consoles for managing the application life cycle.
* Worked with the **Node package manager** along with **Karma, Jasmine**, **Grunt** and **Bower** for test and build.
* Smoke Test and Acceptance Testing is performed with **Selenium** in multiple Java platforms.
* Worked with the automation team to understand the **Selenium** scripts and review the code, run the tests and review the results and provide inputs to the team.
* Used **Maven** and **Jenkins** to automate the build and deploy process and **Git** was used for project management and version management.

**Environment: Java 8, Spring MVC, Spring Boot, Angular 2, HTML5, CSS3, JSON, JavaScript, Node.js, Spring Data, Protractor, Mongo DB, Oracle 11g, IntelliJ IDEA, Junit 4.4, Mockito, Git, Selenium, Scala, Spark, Drools, AWS, Docker, Spring Cloud, RESTful web services, Apache Tomcat, Apache Kafka, Camel, Maven, Jenkins, Karma, Jasmine.**

**Client: Walgreens, Chicago, IL July 2014 – Jan 2016**

**Role: Sr. Java Full Stack Developer**

**Description:** This is an ecommerce project. Walgreens website provides the facility of online shopping. We can see the products, search and buy it online. Pharmacy orders also can be applied online and check the status. This has mobile and Tablet compatibility as well. I have worked on this website for Adaptive methodologies. Walgreens wants to reconstruct the website using Adaptive method.

**Responsibilities:**

* Responsible for **React** UI and architecture. Building components library, including Tree, Slide-View, and Table Grid.
* Responsible for Building applications using **React.js** which allowed us to render pages on both the client and server using the same codebase.
* Implemented **React.js** code to handle cross browser compatibility issues in Mozella, IE 7, 8, 9, Safari and FF. Used **Babel** plugin tool for conversion of **ECMA versions** to support all type of browsers.
* Developed the flux pattern by using **Redux** framework as a core dependency.
* Integrated **Redux** data store allowing React components to have access to data resulting in highly maintainable code.
* Used **React-Router** to turn application into Single Page Application.
* Used Java-J2EE patterns like **Model View Controller (MVC), Business Delegate, Data Transfer Objects, Data Access Objects**, factory patterns.
* Designed and developed the End Points (Controllers), Business Layer, DAO Layer **using Hibernate** and **Spring IOC (Dependency Injection)**.
* Extensively used **MVC, Factory, Delegate** and **Singleton design patterns**.
* Developed **micro services** architecture using Rest APIs, **spring boot** and **pivotal cloud foundry.**
* Developed **REST Web Services** clients to consume those Web Services as well other enterprise wide Web Services.
* Used **Hibernate** framework for back end development and **Spring DI** for middle layer development.
* Used **Spring MVC Transaction Management and Hibernate cache** concepts.
* Modified the **Spring Controllers and Services** classes to support the introduction of spring framework.
* Creating Docker containers leveraging existing Linux Containers and AMI's in addition to creating Docker containers from scratch and developing **Docker** images to support Development, Testing Teams and their pipelines, distributed **Jenkins**, **Selenium** and **JMeter images**, and **Elasticsearch, Kibana** and **Log stash**.
* Installed **Pivotal Cloud Foundry (PCF)** on EC2 to manage the containers created by **PCF.**
* Used **Docker** to provide virtualize deployment containers and push the code to **EC2** cloud using **PCF.**
* Experience in working with big data platform with a combination of **Hive MQ, Cassandra** and **Spark.**
* Worked with high volume and complex **PL/SQL stored procedures** and **packages** using **TOAD**.
* Experience in data structure design, Data Modelling in **Cassandra**.
* Developed **JUnit, Chai, Mocha and Gulp** test cases for unit, integration, and functional tests.
* Ran Log aggregations, website Activity tracking and commit log for distributed system using **Apache Kafka.**
* Used **Log4j** to print logging, debugging, warning and info on server console. Debugged the **MAVEN** scripts for building entire web application.
* Implemented **Cucumber** for behavioral testing of application
* Developed reusable UI components using ES6, Handlebars and **Webpack.**

**Environment: React.js, Node.js, Babel, Redux, Bootstrap, Docker, Jenkins, Pivotal Cloud Foundry (PCF), Docker, Cassandra, JUnit, Chai, Mocha, Gulp, Spring Boot, Spring MVC, Hibernate, Apache Kafka, Log4j, MAVEN, Cucumber, Webpack, Babel.**

**Client: PepsiCo Inc, Chicago, IL Sep 2013 – June 2014**

**Role: Java/J2EE Developer**

**Description:**Open System (Secondary Commerce application management) is an Web-application developed at Pepsico to maintain the on-line E-commerce for all the products within departments across the world (data and relationships between), where they sell all the goods online with vendor’s and consumers

**Responsibilities:**

* Involved in the design and development phases of **Agile Software Development.**
* Analyzed current Mainframe system and designed new GUI screens.
* Developed the application using 3 Tier Architecture i.e. Presentation, Business and Data Integration layers in accordance with the customer/client standards.
* Used **FileNet** for Content Management and for streamlining Business Processes.
* Created Responsive Layouts for multiple devices and platforms using foundation framework.
* Implemented **printable chart report** using **HTML**, **CSS**, **jQuery** and **JavaScript** for client-side validation.
* Worked on **UNIX** to move the project into production environment.
* Created **Managed Beans** for handling JSF pages and include logic for processing of the data on the page.
* Used Object/Relational mapping tool **Hibernate** to achieve object to database table persistency.
* Worked with **Core Java** to develop automated solutions to include web interfaces using HTML, CSS, JavaScript and Web services.
* Developed web GUI involving **HTML, Java Script under MVC architecture**.
* Creation of **WebLogic** domains and setup Admin & Managed servers for **JAVA/J2EE** applications on Non-Production and Production environments.
* Involved in the configuration of **Spring Framework** and **Hibernate mapping tool**.
* Monitoring **WebLogic/JBoss** Server health and security.
* Creation of Connection Pools, Data Sources in **WebLogic** console.
* Implemented **Hibernate** for Database Transactions on **DB2.**
* Involved in configuring **hibernate** to access database and retrieve data from the database.
* Written **Web Services (JAX-WS)** for external system via **SOAP/HTTP call.**
* Used **Log4j** framework to log/track application.
* Involved in developing **SQL queries, stored procedures**, and functions.
* Creating and updating existing build scripts using **ANT** for deployment Tested and Used **Rational Clear Case** for Version Control.

**Environment: FileNet, IBM RAD 6.0, Scala, Java 1.5, Core Java, Spring, Swing, Hibernate, JSF, ICE Faces, Hibernate, HTML, CSS, JavaScript, UNIX, Web Services- SOAP, WAS 6.1, XML, IBM WebSphere 6.1, Rational Clear Case, Log 4j, IBM DB2.**

Client: T-Mobile, Bakersfield, CA May 2012 – August 2013

Role: Java Developer

Description: T-Mobile is a leading Telecom Domain company based in USA. T-Mobile Equipment Installment Program (EIP) team works with clients to help their customers finance their Mobile devices from various available installment plans, introduce new plans and calculate down payment and monthly Installment using Credit Information of an end user. Also helps them Return or Exchange their Mobile Device and upgrade to a new mobile device using jump Upgrade Option.

**Responsibilities:**

* Worked as a Java Developer and involved in analysis of requirements, the design, development, integration, deployment and testing.
* Developed the application under **J2EE** architecture using **JSP, spring**, **JavaBeans**, and **iBATIS**.
* Used **AJAX** in user validation and suggestion list and to display dialog boxes.
* Involved in preparing the High Level and Detail level design of the system using **J2EE.**
* Developed Web Interface using **Java Script, HTML** and **CSS.**
* Involved in the development of model, library, struts and form classes (**MVC**).
* Used **Spring Framework** and created the Dependency injection for the Action classes using **ApplicationContext.xml**.
* Worked on MQ with J2EE technologies on the WebSphere MQ.
* Used display tag libraries for decoration and used display table for reports and grid designs.
* Worked on **core java**, using file operations to read system file (downloads) and to present on **JSP**.
* Providing fixes to the issues identified in testing phase.
* Implemented **SOA** architecture with web services using **SOAP** and **XML.**
* Analyzed, designed and implemented **DAO** pattern for accessing Database using connection pool.
* Used **PL/SQL** stored procedures for applications that needed to execute as part of a scheduling mechanisms.
* Involved in configuration of **XML** flat file and parsing the **XML** file using the **SAX Parser**.
* Worked on diverse ways to increase performance of the Application through use of methodologies like asynchronous calls to database, **stored procedures** in place of **Dynamic SQL**, etc.
* Used **Rational Clear Case** for version control and **JUnit** for unit testing.
* Implemented **JReport** for annual report generation with charts.
* Provided troubleshooting and error handling support in multiple projects.
* Worked on Reconciliation, which involves in providing **root cause** analysis and **data fixes**.
* Configured **Glassfish** Application server and deployed the web components.
* Extensively involved in **designing UI**, reporting and specification documentation.
* Responsible for the user module, setting rights and permission to users through the keywords set with database and testing.

**Environment: JDK1.5, JSP, JSF, Struts, iBATIS, Spring, HTML, JavaScript, AJAX, CSS, XML, EJB, PL/SQL, Glassfish, JUnit, SOAP, SAX Parser.**

## Client: Goldman Sachs, NY Oct 2010 – Apr 2012

## Role: Software Developer

Description: Goldman Sachs Execution and Clearance (GSEC) Risk technology team is responsible for developing systems for monitoring and managing portfolio risk of the prime brokerage clients in the margin lending business. These provide coverage for both intraday risk using real-time trades and EOD portfolio level risk.

**Responsibilities:**

* Worked as a Java Developer and involved in analysis, design, development, deployment and testing.
* Implemented **MVC-Model 2** architecture using **Struts** and other **J2EE** design patterns for the application development.
* Used **Struts Framework** along with **JSP, HTML, CSS** and **JavaScript** to construct the dynamic web pages.
* Designed **DTDs, XML** Schema for data transmission and XSL style-sheets.
* Adopted **J2EE** design patterns like Singleton and used DTO’s transfer the data.
* Designed, developed and maintained the data layer using the **ORM** frame work called **Hibernate**.
* Involved in the development of SQL queries to get data from **MySQL**.
* Used **ANT** for building and deploying NBT application to servers.
* Extensively worked on **Object Oriented Programming** aspect of Java using JDK1.5 for collections along with **comparator, Multithreading, thread synchronization.**
* Used **Hibernate** to persist the Data into the Database.
* Using **Eclipse IDE** for bluestone application development of Java related classes and components.
* Involved in **Agile development process**.
* Deployed the application on **Tomcat 6/5.5** and used **shell scripting** for maintaining servers.
* Production supported after release.
* Worked with offshore and ensuring on time delivery of deliverables.
* Deployed the NBT application in **WebLogic**, **Tomcat servers** on Solaris and Windows environments.
* Developed **Unit Tests** and **Test Suites** using **JUnit**.

**Environment: java1.6, Struts2.0, Spring2.5, JSP 2.0, Ajax, XML, HTML, ANT, CSS, JavaScript, JBuilder, custom JSP tags, JSTL, Mercurial, FTP, UNIX (AIX), Hibernate3, MySQL, WebLogic, Continuum, Tomcat6.0/ 5.5, Windows XP.**

**Client:** **BrainWorks IT Solutions., India June 2009 – Sep 2010**

**Role: Jr. Java/J2EE Developer**

**Description:** An application is developed to automate the Sales Order Transactions of company. This application keeps track of the information pertaining to the sales transactions such as Customer details, Product or Item description and their Pricing Schedule, Purchase Order details and View and Enquiry of the Order Screens. Designed and developed the Order Processing Module. Involved in the design and coding of this module. The system checks the database for availability and an invoice is prepared.

**Responsibilities:**

* Developed **PL/SQL** queries to generate reports based on client requirements.
* Developed **Servlets** and **Java Server Pages** (**JSP**).
* Enhancement of the System according to the customer requirements.
* Created test case scenarios for Functional Testing.
* Used **Java** Script validation in **JSP** pages.
* Helped design the database tables for optimal storage of data.
* Coded **JDBC** calls in the servlets to access the Oracle database tables.
* Responsible for **Integration**, **unit** **testing**, **system** **testing** and **stress testing** for all the phases of project.
* Prepared final guideline document that would serve as a tutorial for the users of this application.

**Environment: Java, Servlets, J2EE, JDBC, PL/SQL, HTML, JSP, Eclipse, UNIX**.