**Sri Lakshmi Tirumala**

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**Full stack developer**

**Professional Experience:**

* 7+ years of experience in design, development and implementation of software applications using Java, J2EE technologies.
* A self-driven, adaptable and quick learning professional with in-depth understanding in Software Development Life Cycle, project requirement gathering, design, Software development **OOA & OOD.**
* Excellent knowledge of **Object Oriented** concepts and exposure to Java J2EE technologies.
* Hands on experience in developing web applications using **HTML5, CSS, JavaScript, jQuery, AJAX, NodeJS, ReactJS, AngularJS and Bootstrap.**
* Strong experience in design and development of multi-tier application utilizing **Java, Servlets, Struts, JSP, JSF, XML, SOAP JNDI, JDBC, Web Services, Multi- Threading, Hibernate and Spring Framework.**
* Expertise in implementing Design Patterns like Singleton, Front Controller, MVC (Model View Controller), Session Facade, Service locator, DAO, DTO, Business Delegate, Factory and Abstract Factory, Decorator, Observer, Adapter and Strategy.
* Strong working knowledge in Hibernate and experienced in developing REST services using Jersey, spring.
* Experienced in developing web applications using **Spring, JSF, Struts MVC** frameworks**.**
* Developed single page applications (SPA) using **AngularJS**.
* Have in depth knowledge on the **Java/J2EEDesignPatterns**. Implemented various design patterns like **MVC**, Command Singleton, Session Façade, Data Access Object, Value Object Patterns.
* Work experience on application servers like **WAS** (WebSphere Application Server), **Web logic, Apache Tomcat** web server and **JBOSS**.
* Basic knowledge on XML - DOM and SAX parser.
* Worked on several standard Python packages like Numpy, matplotlib, Pickle, Beautiful Soup, PyGtk Python-twitter, NetworkX, urllib2, MySQL dB etc.
* Worked on various applications using Python integrated IDEs Eclipse Pydev, PyCharm, and Sublime.
* Hands on experience in writing light weight Node.js express server, and using technologies like Ajax, JavaScript/jQuery, JSON to make connections between server and databases like MongoDB and MySQL.
* Good Exposure to Service Oriented Architecture (SOA) such as Web Services including **SOAP**, **RESTful**, **UDDI, WSDL** and **JAX-WS.**
* Experience in designing **data models** in Cassandra and working with **Cassandra Query Language**.
* Experience with features of **Angular2** such as directives, dependency injection and modules.
* Expert in writing **SQL** queries and using **Hibernate** framework with **Spring ORM** in interaction with the **RDBMS** and familiar with Non-Relational Database like **Mongo DB.**
* Have strong experience in working on Groovy and grails platform.
* Excellent understanding of NoSQL databases like HBase, Cassandra.
* Experienced with Performing CRUD operations using HBase java API and Rest API.
* Have a hands-on experience on fetching the live stream data from DB2 to HBase table using Spark Streaming and Apache Kafka.
* Developed DAOs layer using Cassandra big database and it was integrated with whole framework. Implemented a Cassandra NoSQL based database and associated RESTful web service that persists high-volume user profile data for vertical teams.
* Experienced in developing MapReduce programs using Apache Hadoop for working with Big Data.
* Hands on experience with Hadoop, HDFS, MapReduce and Hadoop Ecosystem Pig, Hive, Oozie, Flume and HBase.
* Worked on Swagger API and auto-generated documentation for all REST calls.
* Experience with Waterfall, Agile, Scrum and XP (Extreme Pairing) software development environments.
* Worked on Build and deploy tools like Maven and ANT.
* Core development experience for Groovy Grails restful web services.
* Skilled with version control software like SVN, TFS, Clear case and GIT.
* Strong work experience on databases like SQL server, Oracle11g and DB2.
* Have very strong inter-personal skills and the ability to work independently and with the group, can learn quickly and easily adaptable to the working environment.
* Experienced in testing frameworks such as ANT, Log4J, Junit, and Mockito and implemented using Assert-J.
* Expertise in using build tools like Maven.
* Experience in continuous integration using Jenkins for timely builds, code coverage, running test.
* Proficient in integration of Enterprise Java Beans (EJB) with existing applications and using services provided in
* distributed applications through Web Services.
* Extensive experience with Java compliant IDE’s like Eclipse 2.0, 3.0, 3.1, Net Beans.
* Expert in deploying the code through web application servers like Web Sphere/Web Logic/ Apache Tomcat.

**Technical Skills:**

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| **Java Technologies** | Java/J2EE (Servlets, JSP, HTML, EJB, JDBC, JNDI, JSF, JPA, JSON, JMS, XML) Web Services (SOAP, RESTful), Struts, Hibernate, Multi-Threading, Spring Frameworks (Spring Boot, Spring Batch, Spring Cloud, Spring Data). |
| **Web Technologies** | HTML5, CSS3, JavaScript, NodeJS, AngularJS, Angular2, Angular 4, ReactJS, Typescript, AWS, Bootstrap, jQuery, Groovy Grails, AJAX, JSON, XHTML, XML |
| **Web/Application Servers** | IBM Web Sphere Application Server, Web logic, Tomcat, Glassfish. |
| **Database** | Oracle, DB2, SQL Server**,** My SQL, Mongo DB, Dynamo DB, Cassandra |
| **Other Tools** | Maven, Gradle, Ant, Log4j, Selenium, JUnit, Unit Testing, Mocha, Jenkins, Docker, JIRA, Karma, Jasmine. |
| **IDE** | Eclipse, RAD, NetBeans. |
| **Version Controls** | CVS, SVN, GIT |
| **Operating Systems** | Windows, Linux ((Ubuntu), Unix |
| **Hadoop ecosystem** | Map Reduce, Sqoop, Hive, Oozie, PIG, HBase, HDFS, Zookeeper, Flume, Cassandra, Spark 2.1.0, Kafka |

**Education:**

Bachelor’s in computer science.

**Ohio Department of Public Safety, OH March 2016 – Till Date**

**Role: Java Full Stack Developer**

**Responsibilities:**

* Analysis, design, and development techniques in an agile environment. Specifically, the scrum framework and extreme / pair programming(XP) and followed TDD (Test Driven Development).
* Involved in Enhancement of existing application utilizing AngularJS, created HTML navigation menu that is role based wherein menu items changes dynamically based on the values derived from the database in the form of JSON.
* Developed all the UI pages using **HTML5**, **CSS3, JSON, JavaScript, jQuery, AngularJS, ReactJS, Ajax.**
* Used various **Bootstrap** components and developed the application following Responsive web design.
* Used Spring Core Annotations for Dependency Injection **Spring DI** and **Spring MVC** for **REST** API s and **Spring Boot** for **micro-services**.
* Responsible for creating and maintaining architecture for **Restful API** using **Spring Boot**.
* Implemented **Hibernate** along with annotation based transactional support in **Spring** Framework.
* Developed Java Beans and Custom Tag Libraries providing client-side validations in **JavaScript** and providing interactive front-end GUI using **AJAX**.
* Develop core business api and services using groovy as a grails service and Develop complex arithmetic functions using Groovy.
* Created and consumed Web Services. Created Typescript reusable components and services to consume REST API's using Component based architecture provided by angular 2.
* Build REST web service by building Node.js Server in the back-end to handle requests sent from the front-end jQuery Ajax calls.
* Implemented J2EE Design Patterns like **MVC** and **Singleton**.
* Exposed **RESTful** web services using **JAX-RS**. Implemented Angular promises to handle asynchronous communication with our Restful API for various requirements.
* Use of **IBM MQ** for data exchange via **JMSAPI** with other entities or systems.
* Built SPA with loading multiple views using route services using**Angular2**and **NodeJS.**
* Created and consumed Web Services. Created Typescript reusable components and services to consume REST API's using Component based architecture provided by angular 2.
* Responsible for writing the Design Specifications for the generic and application specific web services in Groovy n Grails.
* Used Python and Django Framework to develop application.
* Implemented API Documentation with Swagger.
* Used Python to place data into JSON files for testing Django Websites. Created scripts for data modeling and data import and export.
* Web application development using Groovy Grails JQuery AJAX and D3.js.
* Worked on local Storage to store & retrieve insensitive user data during transition between the different pages.
* Implemented Business components such as user authentication, entitlements using spring beans.
* Replaced existed Angular JS code withAngular2.0code, which decreased number of lines of code for a web application which increased performance.
* Involved in the process of **data modeling** Cassandra Schema.
* Experience in running spark streaming applications in cluster mode.
* Experienced in Spark log debugging
* Developed backend code using Hadoop Rest API - WebHDFS to perform file system operations such as create, delete files and directories, open, read or write files etc.
* Worked on Spark REST APIs like Cluster API and Workspace API.
* Involved with integration of the enterprise components system manager and data replicator.
* Design and develop GUI and back-end components for analysis and collaboration software in Google Web Toolkit, Java, Saas, big data, cloud, POC, RBDMS, Java and XML in a UNIX environment.'
* Developed integration modules for disparate clients using **Apache Camel**.
* Developed controllers, services, custom directives for various modules in **Angular** and was also involved in developing unit test cases using **Jasmine, Karma.**
* Experience working with NO-SQL Database like Cassandra.
* Experienced working with real time analytical operations using HBase.
* Implemented CRUD operations on HBase Data using Java API and Rest API.
* Integrated HBase with Map reduce to work on bulk data.
* Plan, deploy, monitor, and maintain Amazon AWS cloud infrastructure consisting of multiple EC2 nodes and VMWare Vm's as required in the environment.
* Worked in managing VMs in Amazon using AWS and EC2.
* Implemented a SOA compliant system working on various transactional messaging using Camel.
* Developed REST APIs using Spring Boot and integrated them to send JSON data to UI.
* Used Oracle as database and involved in the development of PL/SQL backend implementation.
* Worked on Java Message Service JMS API for developing message-oriented middleware MOM layer for handling various asynchronous requests.
* Performed bulk data loading into Cassandra using SSTableLoader.
* Responsible for building this scalable distributed data solution using Datastax Cassandra.
* Built the reusable service components using Angular 2 services with Object Oriented JavaScript, jQuery, HTML, CSS3 based on the visual designs.
* Involved in Custom components development and Interacted with ADF and **Oracle** developed team.
* Used **Log4j API** for logging in development, testing and production environments, configured to send email notifications.
* Managed Jenkins for **CICD** in a multiple VPC AWS environment for Java and Node JS.
* Developed user interface using JSP, AJAX, Java, SaaS, big data, cloud, POC, RBDMS, JSP Tag libraries and Struts Tag Libraries to simplify the complexities of the application.
* Experience in Micro services development using spring boot and deployment in Pivotal Cloud Foundry (PCF).
* Implemented version controlling using **GIT** and used **Jenkins** for continuous integration.
* Developed micro services SOA implementations using RESTful web services, Spring Boot, Spring JDBC, Cloud Config server.
* Implementing and setting up Route 53 for AWS Web Instances & ELB & Cloud Front on AWS Environment**.**
* Used **GIT** for version control and used eclipse as the IDE for developing the application, Used Rational Clear Quest for defect fixing. Involved in guiding, mentoring new contractors to understand the application.

**Environment:** Java1.8, J2EE, Spring Core, Spring (MVC), Spring Boot, Hibernate, JSON, Junit, Agile model, JavaScript, AngularJS,Angular2, Angular 4,Jenkins, HTML5, CSS3,CICD, Groovy, Web Services (SOAP), JMS, RESTful, camel, Multithreading, Angular2, WebSphere, JMS, Mongo DB, IBM MQ, Log4j, Eclipse, Cassandra, Python,**HBase** Pivotal Cloud Foundry (Platform as a service).Tomcat, Maven, ReactJS, Jenkins, Spark streaming, GitHub, Oracle, PL/SQL, Jasmine, Karma, NodeJS, Docker, Jira, AWS.

**State of Wisconsin ,WI Aug 2015 – Feb 2016**

**Role: Java Full Stack Developer**

**Responsibilities:**

* Involved in Requirements gathering, Analysis, Design, Development and Testing of application developed using **AGILE SCRUM methodology.**
* Developed the User Interface Screens for presentation using **Angular-JS**, **Ajax, Bootstrap, Java Script and HTML**.
* Used **MAVEN** in each project to automate the builds and managing project.
* Implemented Reporting SPAs using **AngularJs**, Angular **Directives**, **Bootstrap**, NodeJS, CSS3, AJAX.
* Developed **UI** using **bootstrap** dropdown multi-select, bootstrap modals Implemented a suite of app wide MODALS for application configurable warnings and alerts, Developed Tab **Widget**, Tree **Widget**, user interfaces and **controllers** and their **templates**.
* Developed an **AngularJS** workflow manager leveraging Angular-UI's state router for flexible configuration and management of multi-step user input flows.
* Developed Backend **Rest** services using **spring and JSON**.
* Entailed in system design and development in core java using **Collections**, **multithreading.**
* Developed applications using **Java 6.0/7.0** and **J2EE.**Experience in **LINUX** environment.
* Implemented the caching mechanism in **Hibernate** to load data from **Oracle database**.
* Deployed the complete Web application on **JBoss** server and used **Log4J** to capture the log that includes runtime exceptions.
* Have developed test scripts using Junit, TestNG, Selenium RC, Selenium 2 web driver, Geb, xpath, jQuery, Groovy, Spock
* Improved department process by designing and implementing a Groovy/Grails/JavaScript application for project activity planning activities.
* Involved in migrating data from Oracle to Cassandra.
* Worked on batch process development using **Akka** with Camel.
* Used Pylint to check for errors in Python code, tries to enforce coding standards and get details about code’s complexity.
* Working with React Router for developing Single Page Applications SPAs.
* Experience with Test Driven Development and **Dockers** and **Node.js**.
* Extensively used Hibernate 3.0 in data access layer to access and update information in the database.
* Hands on experience on Hibernate query language for searching dynamically.
* Deployed and currently maintaining the applications in **JBoss** application server in production environment.
* Browser based client communications with server using **REST** web services with **JSON**.
* Involved in **Unit Testing ,Functional and Integration Testing** for different Modules in the application using **Jasmine and Karma.**
* Developed Camel routes using **Scala** DSL and developed custom message converters.
* Integrated configured Camel with **ActiveMQ** to use it as bus.
* Developed mobile applications using jQuery Mobile, Java, SaaS, big data, and Cloud.
* Involved with the team of fetching live stream data from DB2 to HBase table using Spark Streaming and Apache Kafka.
* Participated in the application architecture, development tools for web solutions that fulfill the business requirements of the project.
* Comfortable working with MEAN (MongoDB, Express, Angular, NodeJS) stack.
* Installed and configured Hadoop ecosystem like HBase, Flume, Pig and Sqoop
* Configure and monitor numerous Mongo DB and NoSQL instances.
* Implemented services in modeling analytics platform using Grails and Groovy.
* Reviewed existing code and performance tuned SQL queries, written unit test cases to test services implemented in grails and groovy.
* Experienced in running query using Impala and used BI tools to run ad-hoc queries directly on Hadoop.
* ​Implemented and maintained the branching and build/release strategies utilizing GIT
* Involved in the implementation of JSPs, Servlets to interact with Oracle Database.
* Installed, configured, and managed the servers (Tomcat, Apache, MySQL, MongoDB, Groovy/Grails, JIRA, Git, JUnit).
* Developed the various feature of the application using front end technologies like Knockout JS and ReactJS.
* Involved in implementing TDD functionality of extreme programming in software development life cycle.
* Designed properties file that has been used by many services and written code to read this properties file.
* Rapid prototyping using Spring technologies distributed caching implementation using Pivotal Gem fire.
* Worked on building & deploying Java code through Jenkins, used Jenkins Amazon Web Services (AWS) Code Deploy plugin to deploy to AWS and worked AWS Cloud management.
* Developed server-side software modules and client-side user interface components deployed entirely in Compute Cloud of Amazon web Services (**AWS**).
* Developed scripts for build, deployment, maintenance, and related tasks using **Jenkins**, **Docker**, and **Maven**. Used **GitHub** as a version control, and **JIRA** for tracking bugs.

**Environment:** J2EE/J2SE, Java1.7, Spring MVC, Spring Boot, HTML, CSS, JavaScript, Bootstrap, AngularJS, Angular 2, NodeJS, Agile, Mongo DB, Knockout JS, WebSphere, Groovy Grails, Hibernate, ReactJS, JMS, Camel, JBoss 7, SOAP, REST, XML, Python, Spark Streaming and Apache Kafka, Pivotal Cloud Foundry, Cassandra, Log 4j, Mongo DB, AJAX, jQuery, Shell Script, GIT, JIRA, Jenkins, Maven and Windows 7.

**Master Card, St. Louis, MO**  **Jan 2014 – July 2015**

**Role: Java/J2EE Developer**

**Responsibilities:**

* Designed and developed the application using **agile methodology** and followed TDD and Scrum.
* Wrote **Technical design document** with the **class, sequence, and activity diagrams** in each **use case**.
* Involved in design of application framework using **J2EE** guidelines and different **J2EE** used Design patterns and **Object-Oriented Analysis and Design (OOAD)** methodologies.
* Implemented the Graphic User Interface **GUI** by coding in **HTML5**, **CSS3**, **Bootstrap**, **JavaScript** and **jQuery.**
* Used **JDBC** connectivity for querying, inserting, updating, deleting data from Oracle database and involved in translating functional requirements into technical requirements.
* Implemented the **Ajax** interactions with **Prime faces** for better and faster interactive Front-End.
* Developed custom layouts and reusable composite components for the web application using **Face lets**.
* Designed and developed Business components and Integrated with spring framework.
* Wrote data Components for Plan Setup, wrote and called **StoredProcedures** using **Java, HQL,Hibernate**.
* Implemented **Hibernate Caching**(Query and second level EH Cache) for frequent queries executed against database for reports.
* Involved in configuring and integrating **JSF**, **spring** and **Hibernate** frameworks.
* Involved in design and implementation of **MVC architecture** in different modules.
* Rewrite existing Python/Flask module to deliver certain format of data. Created script in python for calling REST APIs.
* Integrated **Spring** and **Hibernate** to develop the business layer which serves the data required for JSF beans.
* Used Spring Batch to build the POJO-based development approach of the Spring Framework.
* Wrote the **DAO**’s to access the database using **JDBC** calls and created aspects using **Spring AOP** annotation approach.
* Setup and benchmarked Hadoop/HBase clusters for internal use
* Consumed data from **Rest** webservices using **Spring RestTemplate**.
* Configured **JDBC** data sources and **JMS** connection factories in **WebSphere**
* Involved in transforming **XML** data in to **Java Objects** using **STAX**.
* Responsible for configuring and deploying the builds on **WebSphere** Application Server
* Involved in the **Performance Tuning** of the Application on client side.
* Wrote **notification service** that executes daily, sends emails and escalations to participants.
* Wrote **build & deployment scripts** using **Maven, shell scripts on unix env.**
* Configured and set up **WebLogic** Server for deployment and used **JIRA** for tracking bugs and **Jenkins** for **continuous integration.**

**Environment*:*** J2EE/J2SE, Java1.7, JSP, JSF, Apache, Spring Frame Work, Spring Batch, Hibernate, JDBC, JMS, CSS3, AngularJS, JSON, Bootstrap, AJAX, UDDI, WSDL, SOA, SOAP, XML, HTML, Log 4j, IBM Web Sphere 7, Python, RAD 7, Oracle, SunOS (UNIX), Shell Script, JIRA, Jenkins, Maven and Windows 7.

**Sonata, India Mar 2011 – Dec 2013**

**Role: Java/J2EE Developer**

**Responsibilities:**

* Involved in various Software Development Life Cycle (**SDLC**) phases of the project like Requirement gathering, development, enhancements using **agile** methodologies.
* Developed the user interface using **Spring MVC, JSP, JSTL, JavaScript, Custom Tags, jQuery, Html** and **CSS**.
* Used **Spring** MVC for implementing the Web layer of the application. This includes developing Controllers, Views and Validators.
* Developed the service and domain layer using Spring Framework modules like **Core-IOC, AOP.**
* Developed the Application Framework using **Java, spring, Hibernate** and **Log4J**.
* Created **DB tables**, **functions, Joins** and wrote prepared statements using **SQL.**
* Configured **Hibernate session factory** in applicationcontext.xml to integrate **Hibernate** with **spring**.
* Configured **ApplicationContext.xml** in **SPRING** to adopt communication between Operations and their corresponding handlers.
* Developed spring rest controllers to handle JSON data and wrote Dao’s and services to handle the data.
* Created **DB tables**, **functions, Joins** and wrote prepared statements using **PL/SQL.**
* Used **DOM** for parsing the **XML**, **XSLT** Document and used **XML** parser.
* Developed **MySQL** stored procedures and triggers using **SQL** to calculate and update the tables to implement business logic.
* Used **Maven** to build the application and deployed on **JBoss** Application Server.
* Used Continuous Integration for development and **JBoss** Application Server for deploying the web application.
* Monitored the error logs using **log4j**.
* Experienced in managing and reviewing Hadoop log files.
* Implemented Spring JMS message listeners with JMS queues for consumption of Asynchronous requests.
* Used **Multi-Threading** to overcome the errors in the process of transactions.
* Developed the different components of the application such as **JSPs, Servlets**, and **DAO** and used build **ANT** scripts and deployed the application on **WebSphere** Application Server.

**Environment:** Java 1.6, HTML, JSP, Spring, JBoss, log 4j, SVN, Hibernate, SOAP web services, ANT, maven, SOAP UI, Eclipse Kepler, IBM WebSphere, HTML, CSS, java script, Multi-Threading, Xml, MySQL.