**Tilak Sarma**

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**SUMMARY:**

* **Over 16 years of experience** in software development, integration, maintenance, installation, implementation and testing of various client/server, e-commerce (B2B and B2C), web-based RIA and SPA applications using Java/JEE Technologies.
* 14 years of experience in United States as a Developer and Tech Lead.
* Experience in Finance, Insurance, Education, Healthcare, Telecommunication, and Govt. Organizations.
* Exposure into various development methodologies such as Agile, SDLC, Waterfall and RUP.
* Experience in Agile development environment using tools such as JIRA, RTC, Rally, Jenkins, CloudBees, Jacoco, SonarQube, Veracode etc.
* Experience in Continuous Integration and Continuous Deployment in cloud environment using DevOps principles.
* Experience in Cloud base Microservices development and deployment using PaaS and IaaS services.
* Experience in developing web application using Angular, Bootstrap, JSON, XML, Velocity, HTML, CSS, JavaScript, AJAX, JQuery etc.
* Extensive experience in web application development using Java, JDBC, Servlet, JSP, Java Beans, EJB, JSF, JMS, MDB, IBM MQ, Spring JMS.
* Development activities with domain expertise supported by thorough understanding of OOPs, OOAD, UML, IOC, AOP, Core Java and J2EE Design patterns.
* Proficiency in working with Spring Boot, Spring MVC, Struts, JPA, Hibernate and Web Services (SOAP/REST).
* Expertise in designing and developing restful APIs and Web Services using JAX-RS (Jersey, Rest Easy, Spring Rest).
* Expertise in working with various IDEs including IntelliJ, Eclipse, Spring STS and RAD.
* Expertise in database design, development using Oracle12c, DB2, MySQL, Sybase and MongoDB (NoSQL).
* Expertise in setting up, configuration and deployment process with Tomcat, WebLogic, WebSphere, JBoss.
* Experience with PCF, AWS cloud such as EC2, S3, RDS, Lambda, Route53, Elastic Beanstalk, CloudWatch, API Gateway and Docker & Kubernetes.
* Ability to work independently as well as within a team and quick master in new concepts and applications.
* Experience in mentoring resources and knowledge transfer to junior analysts, developers and testers.
* Excellent communication skills across all levels.

**SKILLS:**

**Languages:** JAVA 1.8/1.7/1.6/1.5/1.4, C, C++

**J2EE/JEE Technologies:**  JEE, Servlet, JDBC, JSP, JSF, EJB, JMS, MDB

**Web Technologies:** HTML, CSS, JavaScript, Angular, React, Bootstrap, AJAX, JQuery, XML, DOM, Velocity, JSON

**Web Services:** REST, JAX-RS, SOAP, Axis2, Apache CXF, Swagger2, Postman

**BPM/BRMS:** ALBPM, ALSB, ESB and ILOG JRules

**Database:** Oracle12c, DB2, MySQL5.6, Sybase11.0, SQL Server15.0, MongoDB4.0

**Design Patterns:** MVC, IOC, AOP, UML, Singleton, Factory, J2EE Design Patterns

**IDE:** IntelliJ, Eclipse, Spring STS, ALBPM Studio6.0, RAD

**Java Frameworks:** Spring Boot, Spring MVC, Struts, JPA, Hibernate, MyBatis, JUnit, Log4j

**DevOps Tools:** Maven, Gradle, Jenkins, Dockers, Kubernetes, JIRA, RTC, Splunk, SonarQube, Veracode, Dynatrace

**Cloud Computing Tools:** PCF, AWS(EC2, S3, RDS, Lambda, Route53, Elastic Beanstalk)

**App/Web Servers:** Tomcat, WebLogic, WebSphere, JBoss

**SCM:** Git, GitLab, Bitbucket, SVN, CVS, ClearCase, ClearQuest, VSS, CM Synergy, TFS

**Methodologies:** Agile, SDLC, Waterfall, RUP

**Operating Systems:** Windows10.0, Sun Solaris, Linux/Unix, Mac

**PROFESSIONAL EXPERIENCE:**

**Client: Main Street America Insurance, Jacksonville FL January 2020 - Present**

**Project: Agents Only Portal [AO]**

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

**Responsibilities:**

* Responsible for detailed design, development, unit testing and CI/CD deployment of the application
* Developed Agents Only web-based application in Agile environment using Angular and Java/JEE technologies
* Developed UI of the application using Angular, HTML, JavaScript, jQuery, CSS, Bootstrap, XML, JSON
* Developed back-end REST APIs using Java, Spring Boot, Microservices, JPA, Hibernate and SQL Server
* Developed Java code to retrieve Active Directory User Attributes and Security Group data from LDAP server and store into SQL Server database using JPA and Hibernate
* Developed Spring boot scheduler to run a daily Cron job to read & store AD data into database
* Created REST webservices CRUD operations for Agent Only portal such as Login Screen, Personal Lines, Commercial Lines, Bonds, Claims etc.
* Tested Rest webservices using Postman technologies from a maven build application
* Implemented Spring JWT and later OKTA to enable authentication for web security
* Wrote Junit and Mockito test cases for all Java classes and methods
* Created Docker container images for Spring Boot Microservices
* Used Git and GitLab for version controlling and configuration management
* Created CI/CD Jenkins pipelines and deployed application into AWS Cloud
* Used Kubernetes to automatically manage service discovery, load balancing, and resource allocation
* Used JIRA as task and defect tracking tool
* Delivered quality code by measuring with SonarQube, Jacoco and Dynatrace
* Developed and debugged the application within IntelliJ IDE
* Mentored resources and knowledge transfer to junior analysts, developers and testers
* Communicated effectively across all levels

**Environment**: Java1.8, Spring Boot, Microservices, REST, JPA, Hibernate, SQL Server, Oracle, IntelliJ, Agile, Maven, Angular8.0, Bootstrap, CSS, HTML5, JavaScript, JSON, JUnit, SonarQube, Jacoco, Dynatrace, Mockito, Git, GitLab, AWS(EC2, S3, RDS, Lambda, Route53, Elastic Beanstalk), Dockers, Kubernetes, Jenkins, DevOps, SQL Server Management Studio, SQL Developer, Unix/Linux.

**Client: Mastercard Inc., O'Fallon MO January 2019 - December 2019**

**Project: MPS - Automated Billing Updater PAN Registration Modernization [MPSBU]**

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

**Responsibilities:**

* Responsible for detailed design, development, unit testing and CI/CD deployment of the application
* Developed a new Spring Boot Microservices based application in Agile environment using Java/JEE technologies and deployed into PCF Cloud
* Developed Microservices using Java1.8, Spring Boot, JPA, Hibernate, MongoDB, DB2 and AXON(kafka) Message Consumer and Producer Queues
* Created REST API webservices to load data from existing DB2 database and writing into MongoDB
* Tested Rest webservices using swagger2 technologies from a maven build application
* Developed Spring Boot Scheduler to refresh MongoDB data everyday at 5:00PM CST
* Validated the customers data based on business activities on daily basis and after validation sending the data into outgoing Axon Message Queue
* Created Message consumer and producer for AXON(Kafka) messages
* Created Docker container images for Spring Boot Microservices application
* Wrote Spring Boot Mockito and Junit test cases for Java classes and methods
* Used Git and Bitbucket for version controlling and configuration management
* Created CI/CD REST API projects based on Jenkins pipelines and deploying into PCF Cloud
* Used Kubernetes to automatically manage service discovery, load balancing, and resource allocation
* Also used Kubernetes to check the health of individual resources and enable app to self-heal by automatically restarting or replicating containers
* Used Rally as task and defect-tracking tool
* Developed and debug the application within IntelliJ IDE
* Mentored resources and knowledge transfer to junior analysts, developers and testers
* Communicated effectively across all levels

**Environment**: Java1.8, Spring Boot, Microservices, JPA, REST, IntelliJ, Agile, Rally, Maven, JUnit, Mockito, PCF Cloud, SQL, DB2, Mongodb, Mongo Compass, DB Visualizer, Git, Bitbucket, SonarQube, Jacoco, Dynatrace, Dockers, Kubernetes, Jenkins, DevOps, Splunk, Linux.

**Client: Commonwealth of Massachusetts EOE, Malden MA November 2017 - October 2018**

**Project**: **Data Collection Services for Schools Interoperability Framework [SIF]**

**Role: Full Stack Java/J2EE Developer**

**Responsibilities:**

* Responsible for detail design, development, testing, production support and monthly promotional releases for the application
* Developed Spring Boot application in Agile environment using Java/JEE technologies
* Developed front end of the application using Angular4.0, Bootstrap, CSS, HTML, JavaScript and JSON
* Backend Services developed using Java, Servlet, JDBC, EJB, Stored Procedure and Hibernate
* Created REST webservices and generated data collection reports for SIMS, SCS, SSDR and EPIMS applications
* Reports data converted into HTML document and then to PDF format using iText technology
* Developed automated email functionality with PDF attachments and sent to different district users
* Implemented various design patterns such as UML, MVC, IOC, DAO, Singleton, Factory etc.
* Wrote SQL queries and Stored Procedures for populating and retrieving data in Oracle database
* Wrote JUnit test cases for Java classes and methods
* SVN used for configuration management, RTC used as task and defect-tracking tool, Eclipse used for developing and debugging the application
* Mentored resources and knowledge transfer to junior analysts, developers and testers

**Environment**: Java1.8, Angular4.0, Bootstrap, CSS, HTML, JavaScript, JSON, Servlet, JDBC, EJB, UML, REST, Eclipse, Spring Boot, Hibernate, RTC, Maven, Weblogic12c, SQL, Oracle12c, Toad, SQL Developer, SVN, Unix/Linux.

**Client: State Street Bank & Trust Co., Boston MA February 2015 - November 2017**

**Project**: **Iris Trading Platform [ITP]**

**Role: Lead Java/J2EE Developer**

**Responsibilities:**

* Developed PaaS cloud based application in Agile environment using CDT (Cloud Development Toolkit) and Spring boot and Microservices.
* Developed frontend of the application using Angular, HTML, JavaScript, CSS, Bootstrap, XML, JSON
* Developed Spring boot microservices using Core Java, Multithreading, JDBC, Stored Procedure, JMS and MQ
* Worked on Java Executors framework for implementing multithreading program
* Created RESTful webservices CRUD operations to store data into or retrieve data from Oracle database
* Developed Single/Bulk Trade Booking operations and save the data into database using IBM MQ and Spring JMS
* Developed Quartz scheduler to run cron job every one-hour interval to transfer Iris feeds to a shared location using iDeliver system and IBM MQ
* Implemented various design patterns such as UML, MVC, IOC, DAO, Singleton, Factory etc.
* Wrote SQL queries and Stored Procedures for populating and retrieving data in Oracle12c
* Implemented TDD code style using JUnit for Java classes and methods
* Performed Continuous Integration and Continuous Deployment (CI&CD) of the application in cloud environment using DevOps principle with the help of Jenkins (Cloud Bees)
* Code quality and compliance was maintaining using Jacoco, SonarQube, Veracode and Dynatrace
* Mentored resources and knowledge transfer to junior analysts, developers and testers

**Environment**: Java1.8, Spring boot, Microservies, CDT(Cloud Development Toolkit), Angular2.0, HTML, CSS, JavaScript, Bootstrap, XML, JSON, JDBC, UML, REST, Eclipse, RTC, Maven, Tomcat7.0, SQL, Oracle12c, Toad, SQL Developer, Spring JMS, IBM MQ, Quartz, SVN, Jenkins, DevOps, Jacoco, SonarQube, Veracode and Dynatrace. Cloud, PaaS, Unix/Linux.

**Client: Ohio Department of Transportation, Columbus OH August 2013 - February 2015**

**Project**: **ELLIS [ELPASO]**

**Role: Full Stack Java/J2EE Developer**

**Responsibilities:**

* Developed the application on Struts MVC (Model-View-Controller) framework using Java/J2EE technologies
* Developed front-end of the application using Velocity, HTML, CSS, JavaScript, AJAX etc.
* Back end Business logic developed by using Java, EJB, Servlet and JDBC
* Implemented various design patterns such as MVC, DAO, Factory pattern, Singleton, Business Delegate etc. for the development of the application
* Wrote simple to complex SQL queries using Oracle and Sybase database
* Wrote JUnit test classes for unit testing for Java classes and methods
* Deployed the application into Boss application server
* TFS used for version control of the application
* Log4j used for debugging and monitoring
* IntelliJ used for development and debugging the application

**Environment**: Java1.4, Servlet, JDBC, EJB1.1, UML, Velocity1.2, HTML, CSS, JavaScript, jQuery, AJAX, XML, Servlet, JBoss2.4, IntelliJ,Struts MVC ANT, TFS, Aqua Data Studio, Oracle11g, Sybase, SQL, UNIX/Linux.

**Client: CGI Group, Fairfax VA June 2012 - June 2013**

**Project**: **Provider Enrollment, Chain and Ownership System [PECOS]**

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

**Responsibilities:**

* Developed front-end of the application using JSP, JavaScript, jQuery, AJAX, HTML, CSS and XML
* Extensively used XML in the administration, configuration and development of the application
* Implemented standard J2EE patterns of Service Locator, Business delegate, DAO, Singleton, factory, MVC and many more
* Wrote complex database queries for the DAO layer of the application
* Service Oriented Architecture (SOA) is implemented using WebServices technology of JAWS, SOAP, WSDL
* Used DOM, XSLT for parsing the generated XML response from other applications
* Implemented JUnit test cases for all the developed code
* RAD/Eclipse used for development and deployment of the application in WebSphere
* Developed SQL queries and stored procedures for Oracle11g
* Coordinated with the database team for database design and stored procedures/functions
* Written Ant scripts for building and packaging the application
* SVN used for Software Configuration Management

**Environment**: Java1.6, JEE, Servlets, JDBC, JSP, JavaScript, jQuery, AJAX, HTML, CSS, XML, Websphere7.1, Oracle11g, SQL Developer, Struts2.0, Hibernate, SQL and PL/SQL, JSTL-Tiles, Ant, UML, WebServices, SVN, Log4j

**Client: Citi Bank, Long Island City NY February 2010 - June 2012**

**Project**: **Advice Generation System [AGS]**

**Role: Lead Java/J2EE Developer**

**Responsibilities:**

* Led a team and co-ordinated with the offshore Development Team
* Involved with Agile scrum team, requirement analysis, technical design and development
* Developed AGS application within Spring MVC framework using Java/J2EE
* Worked on Core Java, Multithreading, Servlets, JDBC, EJB, Stored Procedures, JMS and MDB
* Developed Linux shell scripts to invoke Abinito workflows, scheduled the jobs using Autosys
* Executed AGS jobs to generate AFPs which EOD send to BAT for printing advices for Customers
* Wrote/modified Unix Shell scripts for various batch jobs and implement them in the Autosys
* Created and implemented JILs using Autosys to automate the batch jobs
* Developed back-end webservice clients based batch jobs to interact with the trading applications retrieving billing details for various trades during the day
* Executed ETL Abinitio graphs as per the feed files received from different Product Processor and loaded daily and monthly data into Staging tables and then into ODS tables in Oracle Database
* Wrote SQL queries and stored procedures/functions in Oracle database

**Environment**: Java1.6, Spring2.5, Hibernate3.0, Weblogic10.3, VSS, Oracle10g, Toad, ANT, Maven, RAD/Eclipse, UNIL, Autosys, Abinitio, Tomcat5.0, Unix/Linux.

**Client: Jeppesen Sanderson Inc., Denver CO June 2008 - December 2009**

**Project: Jeppesen Corporate and Store Solution**

**Role: Java/J2EE Developer**

**Responsibilities:**

* Developed the application on java/j2ee technologies using Spring framework. Business logic developed using Java beans, Servlet. Involve in writing SQL queries using Oracle10g database
* Database operations performed using JDBC and Hibernate
* Weblogic10.0 used as an application server. Eclipse used for developing and debugging

**Environment**: Java1.5, HTML, CSS, JavaScript, AJAX, JSP, Servlet, Spring, JDBC, WebServices, Apache, XML, JUnit, Ant, Tiles, TOAD, Eclipse, WebLogic, CVS, Log4j, Oracle10g, SQL, PL/SQL, Unix/Linux.

**Client: Verizon Business, Arlington VA May 2007 - June 2008**

**Project: Verizon Partner Solutions Ordering [VPS Ordering]**

**Role: Java/J2EE Developer**

**Responsibilities:**

* Responsible for detail design, development, testing of the application
* Developed the application on Struts MVC framework using Java/J2EE
* Deployed the application in JBoss3.0 server

**Environment**: Java1.5, HTML, CSS, JavaScript, AJAX, JSP, Servlet, Struts, JDBC, WebServices, Apache, XML, JUnit, Ant, Tiles, TOAD, Eclipse, JBoss, VSS, Log4j, Oracle9i, SQL, PL/SQL, Unix/Linux.

**Tech Mahindra Ltd November 2004 - April 2007**

**Project: Database of Records [DBOR]**

**Role: Java/J2EE Developer**

**Responsibilities:**

* Developed the application on java/j2ee platform using Struts framework
* Developed the front-end using JSP, HTML, XML, CSS, JavaScript
* Developed the business logic using Java, Servlet, EJB. Database operations performed using JDBC
* Used Eclipse for developing and debugging of the application

**Environment**: Java1.4, J2EE, UML, JSP, Servlet, EJB2.0, Struts1.2, JDBC, JNDI, JMS, MDB, MQ Series, WebSphere, RAD/Eclipse, Apache, DB2, ANT, CVS, Log4j, Toad, Oracle9i, PL/SQL, SQL, Unix/Linux.

**EDUCATION:**

**IBMT, Bangalore, India**

Post Graduate Diploma in Software Engineering and Technology Management

**Jorhat Engineering College, Jorhat, India**

Bachelor of Engineering

**CERTIFICATIONS:**

MongoDB Certification for Java Developers(On Demand 4.0) in Jan 2019

Mastercard Secure Coding certification in Aug 2019

Agile Certification(Platinum) for the Development of Iris Trading Platform application in year 2016 & 2017