**Sai Tarun K**

Java Full Stack Developer

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**PROFESSIONAL SUMMARY:**

* Over **9+ years** of progressive software experience in **design, development** and **deployment** of **web-based Client-Server** business applications using **OOP, Java/J2EE technologies.**
* Experience working with various SDLC methodologies based on **Agile**/**SCRUM** like **Test Driven Development (TDD), Incremental** and **Iteration methodology, Pair Programming, Agile Development.**
* **Developed modules using Angular, Node, ExtJS, React, Bootstrap, JavaScript, Ajax, jQuery, CSS3 and HTML5**
* **Expertise in using inbuilt and custom AngularJS directives and filters to add functionalities to the web page.**
* Experience in **Angular 1.5/2.0** along with Bootstrap, CSS3to create reusable components for RWD applications.
* Experienced in Server-side validations using **Ajax** in **NodeJS** **and** Client-side validations using **Angular JS**
* **Experienced in Full stack UI technologies using Grunt, Gulp Server, Yeoman generator for Angular.**
* **Strong experience in developing applications using Core Java concepts like OOPS, Multithreading, Collections Frameworks, Exception Handling, Data structures and JDBC.**
* **Experienced with XML related technologies such DTD/Schema, XML, XSLT (DOM, SAX), and XPATH.**
* **Developed core modules in large cross-platform applications using JAVA, J2EE, Spring 3/4/Boot, Hibernate, JSP, Servlets, EJB, JDBC, Web Services (SOAP, REST), Micro Services.**
* **Strong experience in Spring Framework modules such as Spring MVC, IOC, AOP, JDBC, JTA, IO, Spring Dashboard, Spring Boot, Spring Microservices, Spring REST, Spring Eureka, Spring Netflix**
* **Experienced in implementing Service Oriented Architecture and Web Services using SOAP, REST.**
* Developed Microservices using **Spring Boot** and deploying Microservices into **AWS cloud** using **Jenkins**.
* **Experience in creating Docker images, Containers, push/pull and integrating with Spring Boot.**
* **Experienced in Middleware persistence frameworks like Hibernate/JPA Entities for mapping Java classes using Hibernate Query Language (HQL), HSQL Named Queries, Criteria, Projections.**
* Experience in implementing Java EE design patterns such as **MVC, Singleton, Factory, Adapter, Service Locator**
* **Session Facade, DAO, DTO, and Business Delegate** in the development of N-Tier distributed Enterprise Applications.
* **Experience in database modeling, design and development of PL/SQL stored procedures, packages in relational databases: Oracle 9i / 10g / 11g, PostgreSQL and MySQL.**
* Experience in implementing, designing and developing **NoSQL** Databases like **MongoDB, Apache Cassandra.**
* Hands on experience in **Amazon Web Services** provisioning and good knowledge of **AWS** services like **EC2, S3, Elastic Beanstalk, ELB (Load Balancers), RDS,** Route53, Cloud Watch, Cloud Formation, IAM, SNS.
* Used Jenkins as a primary tool for implementing the **CICD** during code releases, worked with **CICD** pipe line to build and deploy transcoding application on **AWS.**
* Expertise with employment of **Apache Kafka** and **Zookeeper** apart from **JMS** as messaging service.
* **Hands on experience with build tools like Ant, Maven, Gradle and Logging tools like Log4J.**
* **Experience with CICD, Maven, Gradle, Jenkins, CVS, Git, GitHub.**
* Monitoring and logging tools such as **ELK Stack** (Elastic search and Log stash).
* **Experienced in using IDE's such as Eclipse, STS, Rational Application Developer (RAD), NetBeans, and IntelliJ.**
* **Experience in testing with JUnit Framework using Mockito and Easy Mock, Spring Junit Runner, JMeter.**
* **Experience in working with web servers Tomcat 8, WebSphere 8.x/9.x, Jetty, JBoss7.1.0 and WebLogic 10.0.**

**TECHNICAL SKILLS:**

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| **Programming Languages** | **Java 8.0/7.0/6.0/5.0, PL/SQL** |
| **Java/J2EE Technologies** | **Servlets, EJB, JPA, JDBC, JSP, JSTL, JNDI.** |
| **Frameworks** | **Spring 4.3, Hibernate 2.0/3.0/4.x, Spring Security 3.2** |
| **Relational Databases** | **Oracle 10g/11g, MySQL 5.7, DB2 11.1** |
| **Developer IDE Platforms** | **Eclipse, Net Beans 8.0.2, IntelliJ 2017.1, STS 3.8.3, GITHUB 2.12.0** |
| **Internet Technologies** | **HTML 5, JavaScript 1.8, XML 2.0, CSS 3 and CSS 4, jQuery 2.11, AngularJS 1.0/1.5/2.0, Node JS 6.0.** |
| **Cloud Environments** | **AWS, PCF, Netflix Eureka, Kubernetes.** |
| **NoSQL Databases** | **MongoDB, Cassandra** |
| **Operating system** | **Windows 10, Linux, Unix** |
| **Testing &Bug tracking Tools** | **JUNIT4.12, JIRA 7.0 , Bugzilla 4.4.12, Curl 7.36** |
| **Methodologies** | **Agile, waterfall, TDD (Test-Driven-Development), Scrum** |
| **Application/Web servers** | **Apache Tomcat 8, IBM WebSphere 8.x/9.x, Jenkins, WebSphere** |
| **Build Tools** | **Maven 3.3.9, Gradle 3.4.1** |
| **Web Services** | **SOAP 1.2, REST 2.0, JAX-WS, JAX-RPC, JAX-RS, Apache Axis** |

**TECHNICAL EXPERIENCE:**

**Client:** **Principal Financial Group, Des Moines, IA** **Apr 17 – Till date**   
**Role:** **Java Full Stack Developer   
Description**: The Principal Financial Group is a global financial investment management and insurance company headquartered in Des Moines, Iowa. The Principal Financial Group offers businesses individuals and institutional clients a wide range of financial products and services including retirement, asset management and insurance, through its diverse family of financial services companies. The Principal is a global investment management leader offering retirement services, insurance solutions and asset management.

**Responsibilities:**

* Involved in the analysis, design and development phases of the **Software Development Life Cycle** (SDLC) using **Agile (SCRUM**) development methodology to deliver regular updates to business team and project managers.
* **Developed UI pages using HTML5, AngularJS 2.0, Bootstrap, CSS3, JavaScript, jQuery, AJAX and NodeJS.**
* Build the reusable service components with **AngularJS, Bootstrap,** and **JSX** that are used across various modules.
* Used Selectors, Events, AJAX and Dom Manipulation components in **Angular 2.0 directives, filters, services.**
* Used **NodeJS** for doing non-blocking design operation for server-side code.
* Built REST by building **NodeJS** in the back-end to handle requests sent from the jQuery Ajax calls.
* Reporting using **NodeJS** and Wrote code to fetch data from web services using **JQuery AJAX** for communication via JSON

response and updating the modified data to display in **UI** pages.

* Used **Executor Service multithreading** to implement **Thread pool, parallel processing** to run processes asynchronously using future calls to access the data.
* Developed using new features of **Java 1.8 annotations**, **Generics**, enhanced for loop and Enums.
* Used advanced java 8 features like **Lambda expressions** for array operations, **Streams, Method reference, collections**. Enhanced concurrency methods etc. throughout the application for well-defined programming.
* **Implemented design patterns like MVC, Singleton, Business Delegate, Factory, and Service Locator.**
* Developed RESTful web services using **Spring MVC REST framework** and **JAX-RS**.
* Used **Spring MVC Rest Controllers**, Services along with Dependency Injection, **Spring JMS** and **Spring Security**. Used **Spring Framework AOP Module** to implement **logging** in the application to know the application status.
* Used Annotations for **Spring DI**, **Auto wiring** and Spring MVC for REST API s and **Spring Boot** for **Microservices**.
* Implementing or exposing the **Micro service** architecture with **Spring Boot** based services interacting through a combination of **REST** and **Apache Kafka** message brokers.
* Experienced in logging with **ELK Stack** by using **Elastic search** and **Log stash**.
* **Using Swagger UI registered micro services, monitored service health check from Spring Boot admin console.**
* **Used OAuth 2.0** authentication protocol respectively for **security** and **authorization**.
* **Experienced circuit breaker patterns and fail safe in Spring Boot Micro Service applications using Hystrix and monitored the services using Hystrix Dashboard.**
* Experience in performance tuning with **Oracle database**. Designed and developed file upload and file download features with **Oracle BLOB and CLOB.**
* **Experienced HQL, Named Parameters, Named Queries and Interfaces such as Expression, Query and Criteria for implementation of Hibernate template and extensively used Hibernate Cache.**
* **IBatis**, **MyBatis** and Hibernate were used as back end ORM tool for implementation of persistence layer and mapping of **POJOs**
* Wrote SQL **queries, stored procedures, triggers, views, and** enhanced performance with explain plans.
* Deployed Spring Boot based micro services into **Docker container** using **Amazon EC2** container services.
* Developed API for using **AWS Lambda** to manage the servers and run the code in the **AWS.**
* Used **AWS Cloud watch** in alerting, maintaining and monitoring of production and corporate servers/storage.
* **Experience with building Docker Images and running them on Docker container.**
* **Developed DAO layer using Cassandra and** expertise in **CQL (Cassandra Query Language)**, for retrieving the data present in Cassandra cluster by running queries in **CQL**.
* Worked on Test automation framework using **Selenium** web driver.
* **Worked with several testing frameworks such as Junit and Mockito**
* Familiar with **Cucumber, Selenium Web Driver, Selenium** commands and **X-path** and developed **grunt** tasks to run the unit tests on **Jenkins** and Used **JIRA** to assign, track, report and audit the issues in the application.
* **Used Eclipse based Spring Tool Suite (STS) for development and debugging Spring Boot applications.**
* Configured and administered **Jenkins for CI/CD** into **Tomcat** Application Server.

**Environment: J2EE, Spring MVC, XML, AJAX, AngularJS, NodeJS, AWS, JavaScript, Hibernate, IBatis, MyBatis, Bootstrap, JIRA, Spring Boot, Web services, Micro services, AWS, ELK stack, Maven, HTML5, CSS3, jQuery, Docker, Tomcat, Git, Jenkins, Selenium, Cucumber, STS.**

**Client**: **Branch Banking & Trust Company, Herndon, VA** **Jan 16 – Mar 17**  **Role**: **Sr**. **Java/J2EE and Full Stack Developer.**  
**Description**: BB&T provides a facility of accessing all your BB&T's accounts information from the comfort of your home or your office. This develops for the clients to have safe and reliable banking experience. The project mainly consists of developing secure and safe login page from where users can view their account information. Manage their account related functions safely and securely.

**Responsibilities:**

* Implemented **Agile methodologies**, actively involved in technical meetings, requirement gathering, analysis, planning, effort estimation, coding, development and testing.
* Developed User Interface application modules using **HTML**, **CSS** and **JavaScript, JSON, jQuery** and **AJAX**.
* **Wrote client-Side code using ReactJS and used NPM and gulp directories to generate the server environments used flux with redux framework to manage targeted URL’s and to monitor the application.**
* **Used ReactJS to implement rich functions in various pages: form validation, crud, grid list, search, sort, pagination, multi-selection, tags-input, advanced/custom directives, authentication, unit tests, etc.**
* Extensively used **jQuery, NodeJS** in implementing various GUI components in application portal.
* **Worked with controller, service and view components in applications using Spring 3.5 framework.**
* Extensively used various modules in **Spring like AOP, DI (Ioc), Bean Wiring, Spring Inheritance, Auto Wiring, Spring JDBC** Templates and **Spring Quartz** Schedulers for Jobs**.**
* **Service Oriented Architecture(SOA) was exposed through RESTful web services with loose coupling between layers using Spring framework during development.**
* **Designed and developed Microservices using REST framework and Spring Boot.**
* **Enterprise level web applications were supported by building Spring based Java and Scala micro services.**
* **Consumed messages from JMS-Message driven beans** and **Active MQ.** Integrated **Active MQ** with **Beans.**
* Experience in Creating, Dropping Indexes, Tables, Stored Procs and Views on **Oracle DB**.
* **Cloud environment for micro services was provided using Spring cloud Netflix (Eureka server, Hystrix, Ribbon).**
* Expertise with employment of **Spring Kafka** and **Zookeeper** apart from **JMS** as messaging service.
* Deployed the Application into **Docker** container and made easily accessible at runtime using **Cloud Foundry** and other cloud services like **AWS, Netflix Eureka, Spring Hystrix** as fallback method.
* Used **Spring Ribbon** for load balancing and broker service to maintain status using **Spring Kafka** and **Zookeeper.**
* Developed **CI/CD** system with **Jenkins** on **Kubernetes** container environment utilizing **Kubernetes**.
* Reading the log files using **Elastic Search**, **Logstash** and alerting users on the issue and saving the alert details.
* Used micro-framework to implement with REST API and **Mongo DB** (NO SQL) as back end database.
* Created JSON Data and stored as documents comprising documents, data types and conversions in **MongoDB.**
* Configured **AWS** **EC2** instances, **S3** **Buckets** and Cloud Formation Services based on the business requirements.
* Utilized **AWS Lambda** to upload data into **AWS S3** buckets and to trigger **Lambda** Functions Including **EC2.**
* Expertise on **SoapUI**, **Selenium** Data Driven framework and integrating it with **Maven** [Build Management Tool], **TestNG** [Unit Testing tool] and **Jenkins** [Continuous Integration Tool].
* Worked with **JAXB** parser for marshalling and Unmarshalling XML data.
* Used **IntelliJ** to develop and debug the application.
* Used **Maven** as build and dependency management tool for creating **EAR, WAR and JAR** file to be deployed in application servers and integrated with **SVN, Jenkins, Jenkins Jobs.**

**Environment*:* XML, XSL, Node, Bootstrap, HTML5, JavaScript, CSS3**, **Ajax, React, Spring 3.5, Git, Aws, WebSphere7**.**5, Swing, Web Services**, **JMS, SoapUI, MongoDB, TestNG, JSON, Maven, Elastic Search, Spring Cloud Netflix**, **Kubernetes, Eureka Server, ANT, Ribbon**, **IntelliJ, Agile.**

**Client**: **USAA Financial Centers, San Antonio, TX Jun 14 – Dec 15   
Role**: **Sr**. **Java/J2EE Developer.**  
**Description**: Dynamic set of activities to help a member to navigate process that requires the multiple interactions with USAA. 1. Current process status. 2. Individual Activity status. 3. Next activity required. 4. Estimated process completion. The main scope is ability to define set of activities for required to full-fill multi step business process, so that process can be consistent and repeatable. And systematically able to create and complete the activities based on trigger/events MSR activity productivity is increased and member has better experience thought the process ability have both manual and automated activities based on business process and ability to have activities added to business activities based on conditions that are defined by the business, so that process can be adapted for multiple business needs.

**Responsibilities:**

* Involved in all phases of the development life cycle (**SDLC**) involving in requirement Collection. Design and analysis of the customer specifications of the application using **TDD** Methodology.
* Implemented the Graphic User Interface by coding in **HTML**, **CSS3, Bootstrap, JavaScript, jQuery,** and **jQuery UI.**
* Designed Single page web applications object oriented JavaScript Framework like **Angular.JS** and **Ext.JS**.
* Created prototypes in **HTML, JavaScript** and **CSS** for different UI pages.
* Implemented and developed UI components using **AngularJS** features like DI, Models, data binding and controllers. Develop various screens using **AngularJS** and used various predefined components from **NPM**.
* The application is designed using **J2EE design patterns** S**ession façade, Singleton, Factory**, **DAO** and technologies based on **MVC** architecture.
* **Used Spring DAO module for performing CRUD operations on database and implemented logging in the application using Spring Framework AOP module to know the application status.**
* Used **Spring MVC** Model View Controller to handle/intercept the user requests and used various controllers.
* Implemented (**SOA**) to retrieve data from client side and made **REST API** calls and parsed the data to client and handled the security and Authorization using **Spring Security**.
* Build, Test and developed application from **Docker** containers and deployed into **PCF** environment.
* Experience in Micro services development using spring boot and deployment in Pivotal Cloud Foundry (PCF).
* Used **JERSEY** framework to implement the **JAX-RS (Java API for XML and RESTful Service**).
* **Developed REST web services using Spring MVC to extract client related data from database and used SOAPUI**
* Developed **Microservices** with **Spring Eureka** to retrieve API routes and Implemented **Spring Circuit breaker** pattern, integrated **Hystrix** dashboard to monitor Spring microservice.
* **Experienced with setting up the basic project setup from scratch using Spring-Hibernate based design.**
* Involved in writing **Thread** Safe blocks for **multithreading** access to make valid transactions.
* Developed application using **Agile** methodology and deployed the application onto **WebLogic** application server.
* Used **Cassandra** for achieving **denormalization** through features like collections.
* Experienced with **JAXB** binding to convert Java object to **XML** and vice-versa.
* Configured and deployed the application in **JBoss** Application Server.
* Involved in Code Review, Unit Testing and Integration Testing, **Selenium Web Driver**.

**Environment**: **HTML, JSF, jQuery, JavaScript, Bootstrap, AngularJS, NPM, Spring 3.x, Spring MVC, Spring Security, SVN, REST, JAX-RS, Jersey, SoapUI, Selenium Web Driver, Web services, JBoss, Agile.**

**Client: Zurich Farmers Insurance Group, Los Angeles, CA Jan 13 – May 14**   
**Position:** **Java Developer**  
**Description:** CSS is a customer facing web application using which the end customer can create a login for himself and manage his Insurance policies online, pay his premiums and also request for any changes in his policies by intimating his agent online. The drive was to enhance the web application’s performance by optimizing the existing features and technologies, analyzing for security threats from external / internal sites and domains and provide a more robust UI to the customer. This was a hugely successful project in terms of customer satisfaction and Farmer’s revenue.

**Responsibilities:**

* Extensive experience in designing professional UI web applications using front-end technologies and Java Script Frameworks **like HTML, CSS, JavaScript, XML, jQuery, AJAX, JSON, Bootstrap.**
* Involved in writing application level code to interact with **RESTful** Web **APIs**, using **AJAX**, **JSON**, **XML** and **jQuery**.
* Worked on **AJAX** functionality for dynamic data binding for data grid, accordion, Ajax driven menu tabs using back end service calls and consumed both **JSON** and **XML** data in UI Side.
* Used Core Java features such **Collections**, **and Exception handling** to efficiently process transactions.
* Used Spring Framework **AOP Module** to implement logging in the application to know the application status.
* Developed the whole application using **Spring MVC Framework IOC** (Inversion of Control) design pattern to separate the application configuration and dependency specification from the actual application code.
* Used distributed Transactions Management system with **Spring JTA**.
* Used **Spring Batch** as spring batch jobs can meet the requirements of reliability, robustness and traceability which are essential for automatic processing of enormous amounts of data.
* Used **Hibernate** as **ORM** tool and developed hibernate configuration files for establishing database connection
* Used **hibernate core** interfaces like configuration, session factory and criteria interfaces.
* Involved in designing and developing the End points (controllers), Business Layer, DAO layer using **Hibernate**.
* Implemented complex back-end component to get the count in no time against large size **MySQL** database
* MQ was used to provide a single unifying transport that reduces cost and maintenance efforts, including support for **HTTP, REST** was used for publishing Web Service interfaces.
* Developing **RESTful web services** using **JAX-RS** API and to exchange data using REST Template in **JSON, XML, and Text.**
* Followed **Test Driven Development** and wrote server-side test cases using **JUnit 4.12.**
* Hands on **Eclipse** as the integration environment for developing, debugging, and maintaining project code files.
* Experienced with WebSphere server to deploy the application.

**Environment: Core JAVA, HTML, CSS2, JavaScript, JQuery, AJAX, JSON, DHTML, JAXB, XSLT, XML, Spring MVC, Spring-CORE, Spring Batch, Spring Security, Spring AOP, Spring JTA, REST Service, Hibernate, MySQL, JMS, WSDL, Junit, Apache CXF, Eclipse.**

**Client: US Cellular, Chicago, IL Oct 10 – Dec 12**

**Role: Java/J2EE Developer**

**Description:** US Cellular is the fifth-largest full-service wireless carrier in the United States, providing     national network coverage and industry-leading innovations designed to elevate the customer experience. The Chicago-based carrier has a strong line-up of cutting-edge devices that are all backed by a high-quality network in big and small cities and rural communities, and currently.

**Responsibilities:**

* Used **AGILE** methodology and participated in SCRUM meetings.
* Designed and developed front-end using struts framework. Used **HTML**, **CSS** and **Bootstrap**.
* Used Multithreading, Collections and other **J2EE** technologies to design and develop the code.
* Developed the **JQuery** callback functions to implement asynchronous communication using **AJAX**.
* Wrote queries in Oracle Spatial in developing **GIS** based application.
* Used **JDBC** to invoke **SQL** stored procedures for applications that need to execute as a part of a scheduling
* Deployed the application on WebSphere application server in development and production environment.
* Conducted weekly code walk through using **UNIX** Shell Scripts.
* Developed **SOAP** based Web Services for Integrating with the Enterprise Information System Tier.
* Used **JIRA** for bug tracking, project level issue tracking and environmental issue tracking.
* Wrote Junit test classes for the services and prepared documentation for the application.

**Environment**: **HTML, CSS3, JavaScript, JQuery, JSTL, EL, JSON, XHTML, JAXB, XSLT, DOM, XML, EJB, Web Services, Java, JSP, JDBC,**

**EJB, J2EE, SOAP, Eclipse, Oracle, Junit, JIRA, WebSphere.**

**Client**: **JH Softech, Hyderabad, India Jul 09 - Sep 10**   
**Position: Java Developer**  
**Description:** JH Softech is a software developer company. Its provide software skills, adopting new and improved technologies on a regular basis operations, client base, geographical reach, service offerings, volume of business, target markets, revenue and profits.

**Responsibilities:**

* Involved in requirement Analysis to understand the Company needs for various downstream systems.
* Programming and Development of web pages using **Struts**, **AJAX**, **Servlets**, **JSP** and **JavaScript**
* Developed user interface using **HTML**, **JavaScript** and **CSS**
* Developed **Jasper report** to generate financial report
* Involved in the performance tuning and bug fixing
* Worked extensively with **JSP’s and Servlets** to accommodate all presentation customizations on the front end.
* Used different Design patterns like **MVC pattern**, **DAO pattern**, and **singleton** to achieve clean separation of layers.
* Designed and developed the code using **multithreading**, **Collections** and other **J2EE** technologies.
* Developed DAOs using **Hibernate persistence API** for the database operations to interact with **Oracle database**.
* Written and executed various **SQL Queries& PL\SQL** programs to retrieve the data from the database Oracle.
* Used **Log4j, Junit** and **developed unit test cases** to monitor the application functionality.
* Used **Tomcat** as a server to deploy the application.

**Environments: Struts, Core-JAVA, JSP, Servlets, Hibernate, ORM, oracle, Multi- Threading, Collections, PL/SQL,**

**OO Design, OO Analysis, XML, XSLT, IBM WebSphere, Log4J, Junit, ANT, Eclipse.**