**Siva Penumatsa**

[**Sivapenumatsa1666@gmail.com**](mailto:Sivapenumatsa1666@gmail.com)

**Ph: 856-431-3249**

**Sr. Java Full Stack Developer**

**PROFESSIONAL SUMMARY:**

* **Over 9+ years** of professional experience including design and development of projects, building the web applications using in the areas of **Java/J2EE Client** and **Server-side** enterprise applications.
* Good Skills in all phases of **SDLC** like requirements, multi-tier application development with **Agile, Scrum, TDD, and Waterfall**.
* Extensive experience in designing professional **UI** web applications using front-end technologies like **AngularJS, Node.js, Angular 2/4, HTML5, CSS3, JavaScript, jQuery AJAX, JSON** and **Bootstrap**.
* Extensively used **Java 8**features such as **lambda expressions, Parallel operations** on **collections, and multithreading**.
* Strong experience in design, development using **Java**, **J2EE**, **Servlets**, **JMS**, **MVC Framework**, **Web services**, **XML**.
* Implemented **design patterns Singleton**, **MVC, Object Factory**, **Front Controller, Factory Design pattern, Singleton**.
* Experience in building web applications using **Spring** framework features **MVC**, **AOP**, **DAO**, **Spring Boot**, **Spring Microservices, Spring REST, Spring Eureka, Spring Ribbon, Spring Netflix, Spring Zulu, Spring Security**, **Spring JDBC** Templates.
* Implementing **Service Oriented Architecture** using Web Services including **SOAP, REST, JAX-WS, JAX-RS, SOAP UI.**
* Created **XML** document using **STAX XML API** to pass the XML structure to **Web Services** in the request response data.
* Experienced in implementing modules like **Hibernate**, **JavaBeans**, **Servlets**, **Struts, and XML Mapping**.
* Developed applications using **Rule Engines-JBOSS Drools**, **Work flows, Human tasks** to implement Business rules validations.
* Experience in creating **Docker** images, Containers, push/pull and integrating with Spring Boot for running applications.
* Expertise in working with **cloud services** like **Amazon web services AWS, Spring Cloud services and PCF** are used.
* Hands on in **AWS,** which includes **EC2, S3,Elastic Load Balancer, Beanstalk**, **Cloud watch, IAM**, **Server Migration**, **Route53**, **SQS**, **VPC**, **S3**, **DynamoDB**, **SNS**, **Glacier**, **RDS**, **EC2** Container Service, **Lambda**and **NoSQL databases**, **Cassandra, MongoDB**.
* Application portability and App auto-scaling using **Cloud Foundry** installation & configuration of **Apigee** Edge on premise.
* Experience with**Spark** to handle streaming data and **Scala** for the batch processing and **Spark** streaming data.
* Experienced Pivotal **Gemfire** caching configuration and administration for better real-time performance.
* Extensive experience with **RDBMS** like **Oracle 11g, MySQL** and developing Views, Functions and **SQLQueries, Stored Procedures and Triggers** Involved in Designing the Database Schema and writing the complex **SQL queries**.
* Performed Query operations on **NoSQL** database **Cassandra** for storing and loading data of customers.
* Used **Jenkins** as the integration tool and improved **Scalability** of applications on **cross-platforms**.
* Experience in **TDD**, using **JUnit framework** with **Mockito** and **Easy mock, Spring Junit Runner**.
* Experienced in using **Log4j** and good expertise in application build tools like **ANT, Gradle** and **Maven**.
* Worked on **Git** as version control management and **JIRA** as Defect management for bug, issue tracking of application. Used **JENKINS** for continuous integration (CI) and continuous deployment (CD) pipeline.

**TECHNICAL SKILLS:**

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| **Java/J2EE Technologies** | **Servlets, JSP, JSTL, JDBC, JMS, JNDI, RMI, EJB, Swing, AWT,**  **Multi-threading, Java Networking** |
| **Programming Languages** | **Core Java, SQL, PL/SQL, C, C++** |
| **J2EE Frameworks** | **Spring MVC, Struts 2.0, JSF** |
| **Application/Web Servers** | **WebLogic, IBM WebSphere, JBoss, Web Sockets, Tomcat** |
| **ORM Frameworks** | **Hibernate, JSF, IBATIS** |
| **Web Technologies** | **JSP, JavaScript, jQuery, AJAX, XML, XSLT, XHTML, DHTML, CSS, SASS,**  **HTML, AngularJS, Ext.js, Backbone.js.** |
| **Spring Framework** | **Spring IOC, Spring Batch, Spring Boot, Spring Security** |
| **Database Server** | **Oracle, DB2, SQL Server, MySQL, RDBMS, MongoDB, Cassandra** |
| **IDE** | **Eclipse, NetBeans, Intellij, STS** |
| **Web Services** | **REST, SOAP, JAX-WS, JAX-RPC, JAX-RS, WSDL,Axis2, UDDI., Apache CXF** |
| **Version Control** | **GIT, CVS, SVN, Clear case** |
| **Build Tools** | **ANT, Maven, Gradle** |
| **Methodologies** | **Agile, Scrum, Water-Fall, Rapid Application Development, Test Drivendevelopment** |
| **Modelling Tools** | **Microsoft Visio, Rational Rose** |
| **Operating System** | **Windows, Mac, Linux, UNIX** |
| **Tools** | **Apache Camel, ESB, cucumber, Rational Rose, Microsoft Visio** |
| **Testing &logging** | **Junit, Jasmine, JUnit, Log4J, SoapUI, Test NG, easy mock and power mock,**  **Karma, Protractor, Mockito, Selenium, Jenkins, Docker** |

**PROFESSIONAL EXPERIENCE:**

**Client: USAA, San Antonio, TX Feb 2016 – till date**

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

**Project Description:** USAA, a diversified financial services group of companies, is among the leading providers of financial planning, insurance, investments and banking products to members of the U.S. military and their families. CIM is a web-service based application which deals with creating user credentials with specific password rules, that are following the USAA policy’s and managing them in LDAP directory and Postgres database for Online USAA customers. It performs operations like modifying/resetting user password and username in LDAP directory.

**Responsibilities:**

* Followed **Agile** methodology and involved in daily **SCRUM** meetings, sprint planning, showcases and retrospective and

used **JIRA** as a tracking tool for the sprints.

* Involved in Requirement gathering, Design, Analysis and Code development by following **Agile** methodology.
* Used **Java 8** features like **Stream API** to write effective, clean and concise code, **Filters, Pipeline** to make our application easier accessing the elements from collections and applying operations on it.
* Used advanced **Java 8** features like **Lambda expressions** for array operations, collections. Enhanced concurrency methods.
* Used **J2EE design** patterns like value object pattern **MVC**, **Session, Façade, Singleton, Factory** and **DAO**.
* Involved in developing **Thread safe** blocks for multithread access and distributed transaction management.
* Designed GUI using **JavaScript, HTML5, CSS3, Angular4, Customs tags and developed Client-Side** validations.
* Extensively used **jQuery** to perform **AJAX** calls for creating interactive web pages on **JSON** response.
* Developed a Single Page Application which can switch to different components using **Angular 4**services to get data.
* Implementing **jQuery, Node.js** and modularized front-end using CSS. JavaScript with **SASS**.
* Updated **LDAP** authentication from **HTTP** to **HTTPS**.
* Implemented and encapsulated Websockets in a service and used them inside the Angular 4 components.
* Extensively worked on **spring, auto-wiring, security, AOP, spring quartz** for scheduling tasks to generate reports to clients.
* Worked with **Microservices** related frameworks **SpringRibbon**, **Eureka** for client-side load balancer and network discovery.
* Implemented pre-authentication data base security using **Spring security** and **Spring Batch** for scheduling and of batch jobs.
* Developed the **DAO layer** for the application using **Spring, Hibernate** and developed various logics and reports using **HQL** and Used **Hibernate Transaction Management, Hibernate Batch Transactions, Hibernate cache** concepts.
* Implemented **RESTful microservices** using the **Spring boot**, **Spring Integration**, **Hibernate**, **Spring Data**, **MVC**.
* Used **microservice** architecture with **spring boot** interacting combination of **REST** and **apache Kafka** message brokers.
* Involved in developing API’s and **RestAPI** proxy using **APIGEE** edge and for sending mobile notifications.
* Created stored procedures, triggers and views using **PL/SQL** for data modification Using DML insert, update, delete in Oracle.
* Experience in Using the Spring **ORM** component for hibernate support for manipulating data for **oracle 11g** database**.**
* Configured the WebSphere to connect with Oracle objects like **tables, views** using **oracle** tools like **Toad, and SQL\* plus**.
* Worked on purging logs on **Elastic Search** DB and **Kibana** UI. Also involved in trouble-shooting logs using **Log stash**.
* Creation of custom **Docker** container images, tagging, pushing images, integration of **Spring boot** application.
* Developed applications using **Rule Engines-JBOSS Drools**, **Workflows,** tasks to implement Business rules validations.
* Used **Swagger** framework, implementing the **Restful** API and Swagger gives the rich User interface to test API.
* Worked with **GIT**, **Source Tree** and **Bitbucket** for source code management, unit tests, automated tests management.
* **Jenkins** as Continuous Integration Server for configuring, administrating, integrating with system tools.
* Created and configured management reports and dashboard using **Splunk** by identifying data patterns, metrics.
* Developed all custom processes, workflows and schemes within **JIRA** to accommodate the organization’s needs.
* Implemented **Maven** script to create **wars**&JARS and deploy the entire project into**WebLogic** application and **Log4J.**

**Environment: Java1.8, HTML5, CSS3, Angular 4, Node.js, jQuery JSON, AJAX, DOM, HQL, Bootstrap, JBOSS 5.1, Spring Boot, Spring Ribbon, Spring Security, Spring Batch, Scala, Selenium, JIRA, Websockets, Apache Kafka, REST, Hibernate, DAO,JPA, Eclipse, log4j, Oracle 11g, GIT, Maven, Jenkins, AWS, Docker, Elasticsearch, JBOSS, Kibana, Junit, Swagger.**

**Client: Commerce Bank, Cherry Hill, NJ Nov 2014 – Jan 2016 Role: Sr. Java Full Stack Developer**

**Project Description:** Account Information System provides new functionalities to modify existing banking application, which supported Customer/Account relationship, Loan Account profile, Transaction and Account Management and Funds Transfer functions. I was involved in developing an enterprise web application that helps the organization in accepting and processing the payments in the form of electronic checks and provide the option for automatic enrolling in payment plan

**Responsibilities:**

* **Used Agile methodology and attended daily and weekly SCRUM meetings to update working status etc.**
* Used J2EE design patterns like **Adapter, Service locator, Session facade, Singleton, Factory and DAO**.
* Used **Multi-threading** to overcome the errors in the process of transactions, handle threads by main thread process.
* Used Custom **Node.js** proxy used to simulate API responses before client implementation was complete.
* Experience in developing server-side applications using **Node.js** to achieve scalability in real-time web applications.
* Develop screens for the front end using **ReactJS** and used various predefined components from **NPM** and React Redux library.
* Created and injected **spring** services, controllers and DAOs to achieve **dependency injection MVC components** to implement.
* Implemented the associated business **Modules integration** using **Spring** and **Hibernate data mapping**.
* **Responsible for support and maintenance of batch jobs, implemented Spring Batch for huge number of transactions.**
* Designed and developed the end points (Controllers), business layer, **DAO** layer using **Hibernate** and **Spring IOC.**
* Used **Hibernate**, object relational-mapping **(ORM)** solution, technique of mapping data representation from MVC model.
* Implemented **Hibernate** to persist the data into database, wrote **HQL** based queries to implement **CRUD** operations on data.
* Worked in creating account statements through Node.js and worked on the chat module utilizing Websockets to transmit JSON data string and render them using Node.js websocket.
* Apache **Mesos** and **Kubernetes** were used as the best ecosystem to deploy and manage **Micro**-**services**.
* Used **RabbitMQ**message broker to route messages to the clients across the cloud network of entire project.
* Developed **REST** web services clients to consume those web services as well other enterprise wide web services. Transferred **XML** data between two interfaces designed **RESTful** web services for handling **AJAX** requests.
* Troubleshooting of different versions of **MongoDB** and cluster configurations to ensure high-availability in various crash scenarios and restoring roll backs **JSON** data and stored as documents comprising documents, data types and conversions.
* **Worked with Apache Tomcat 8 and Node.js servers to deploy and configure Java API’s and frontend modules.**
* Extensively Used **Apache Storm** to transform **unstructured data** before it sends into **NOSQL** Data Base.
* Built the reusable service components using **Angular 2 services** with Object Oriented **JavaScript, JQuery, HTML, CSS3** based on the visual designs.
* Created custom directives in **Angular 2** for reusable components (directive for browser controls like: disable right click, browser close, and lock screen while transition, multifield form elements, back ground file uploads etc.).
* Used XML parser API's like **JAXB** API within the web service for marshalling/un marshalling.
* Involved in Support and Maintenance of the application and troubleshooting of Issues on **JBOSS**by **checking logs, payments.**
* Worked with Version Control Systems like **CVS, SVN (Sub Version), GIT, GitHub, And Clear Case**.
* Used **Pivotal Cloud Foundry** to role-based access controls, applying and enforcing roles and permissions to ensure that users.
* Created continuous integration builds using **Jenkins** and deployed on **WebSphere** application server.
* Used **Gradle** tool to configure and build the application project and continuous integrated with **Jenkins**.
* Used **RAD** (Rational Application Developer) which is based on Eclipse, to develop and debug application code.
* **Implemented automation using Selenium WebDriver, JAVA, and Selenium Grid.**

**Environment:Java 8, Spring MVC, JavaScript, jQuery, JSON, Spring DAO, Spring Boot, Spring Batch,Spring Security, Spring Integration, Golang/Go, Linux, Spring-Hibernate integration framework,** **Websockets, JSP, Oracle, PL/SQL, XML, Spring web flow, Junit, GIT, Maven, Jenkins, AWS (EC2, VPC), REST web service, HTML, CSS, SASS, AJAX, Jira, Angular 2.0**, **Angular JS.**

**Client: UHG/Optum, Detroit, MI Sep 2013 – Oct 2014**

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

**Project Description:** This project mainly involves in integration of data from different applications located at different sites. There are different kinds of research centers located in different places. The chemists will prepare the chemical components in the research labs and register them from different source systems. This data should be synchronized in the other sites.

**Responsibilities:**

* Designed and developed the application using **AGILE-SCRUM** methodology.
* Developed user interface using **JSP** with **JavaBeans, JSTL and Custom Tag Libraries, JavaScript, CSS, jQuery, Node.js, HTML, SASS and Ajax** to increase the speed of the application.
* Incorporating **SpringIOC**&**DAO** framework for **Dependency Injection** with **MVC** design pattern for **Auto Job scheduling**.
* Used **AJAX** to request **JSON** data through **REST APIs** to acquire data from server and display in sorted order.
* Involved in **J2EE** design patterns such as **Data Transfer Object (****DTO), DAO**, value object and template.
* Focused on the spring components such as **Dispatcher Servlets**, Controllers, Model and View Objects.
* Implemented **Spring Bean Factory** to create proxy object using **AOP** framework.
* Involved in implementation of enterprise integration with web services and legacy systems using **SOAP** and **REST**.
* Involved in creating **Restful** web services using **JAX**-**RS** and **JERSEY** tool.
* Developed application using **JMS** for sending and receiving Point-to-Point **JMS** Queue messages.
* Developed a multi-user web application using **JSP**, **Servlet**, **JDBC**, **Spring** and **Hibernate** framework to provide needed functionality and assisted database developers using **PL/SQL** for managing data with the tables in **Oracle**.
* Implemented **Maven** Script to create **JAR**, **WAR**, **EAR**& dependency **JARS** and deploy the entire project onto the **WebLogic**.
* Implemented **XSD**, **Schema**, **DTD**, **XML** documents for web services and tested services using **SOAP**.
* Experience in compiling and tuning the **Linux** on database servers and **JPA** annotations to interact with database.
* Used **CQL (Cassandra Query Language)** to read from and write data into **Cassandra** database.
* Database development required creation of new tables, **SQL** stored procedures, functions, views, indexes and constraints, triggers and required **SQL** tuning to reduce the response time in the application.
* Implemented **NoSQL** persistence pattern for some data within app to increase performance by indexing.
* Used **Maven** for generating system builds and **Jenkins** for continuous integration.
* Worked on **Drools** rules engine and expectation rule engine for writing business rule validation.
* Wrote unit-testing codes using **Junit**, resolved bugs and other defects using **firebug** and wrote **Junit** test cases for **spring controllers** and web service clients in service layer using **Junit**.
* Used **Log 4j** for debugging, testing and maintaining the system Using **JIRA** to manage the issues/project work flow.
* Participated in integration testing, bugs fixing, handling change requests and code reviews.
* Implemented continuous integration of automation framework using tools like **Jenkins**, **Hudson**.

**Environment: Spring, Hibernate, Web services, JAX-RS, JUNIT, SOAP, UI, SQL, JSP, JDBC, JSON, JavaScript, jQuery AJAX, Html, CSS, Angular JS, PL/SQL, Jenkins, Maven, log4j, Jenkins, JIRA, Spring IOC, DTO, JMS, APACHE AXIS, Apache CXF, GIT, UNIX, AGILE-SCRUM, Oracle, Tomcat, Drools.**

**Client: Staples, Inc. Framingham, MA Sep 2011 –Aug 2013 Role: Software Developer**

**Project Description:** Helios is one of the major application in Staples which is used by internal representatives. This application helps staples employees and sales representatives to observe and understand the customer purchasing behavior. Based on the data provided by application, a representative can call an individual customer and discuss about their previous purchases and provide various discount coupons. The special features of application are, it provides browsing history of all customers browsed products on staples web site throughout the united states. Application also categorize the customer purchasing products based on SKU number so that a representative can prioritize which customer to call first

**Responsibilities:**

* Involved in various phases of **Software Development Life Cycle (SDLC)** of the application like requirement gathering, design, analysis and code development.
* Worked one-on-one with client to develop layout, color scheme and layout and implemented it into a final interface design with the **HTML4/CSS3-MCL**, **Bootstrap** and **JavaScript**.
* Designed and developed the UI using **JSP, HTML, HTML4, CSS** and **JavaScript, AJAX, JSON**.
* Worked on various use cases in development using struts and testing the functionalities.
* Involved in preparing the High Level and Detail level design of the system using **J2EE.**
* Involved in the development of model, library, struts and form classes (**MVC**).
* Worked on **corejava**, using file operations to read system files and to present on **JSP**.
* Developed **SOAP based XML web services.**
* Used different patterns like **SOA**, **MVC** pattern, **DAO** pattern, and **Singleton**.
* Developed stored procedures, triggered stored procedures using **Hibernate** in secondary project, involved in developing Programmatic transactions using **Hibernate**.
* Extensively worked on uploading files into **CLOB** and **BLOB’s** of oracle database.
* Migrated from **Ant to Maven via Ivy** for dependency resolution.
* Worked with high volume and complex **PL/SQL** stored procedures and packages using **TOAD**.
* Used **PL/SQL** stored procedures for applications that needed to execute as part of a scheduling mechanisms.
* Experience in updating, modifying queries in **Oracle 8i**.
* Used **Rational Clear Case** for version control and **JUnit** for unit testing.
* Configured **JBOSS** application server and deployed the web components.
* Developed applications using rule engines, **JBOSS**, **Workflows**, human tasks implement business rules validations and provided **Drools** dashboard for business users.
* Provided troubleshooting and error handling support in multiple projects.

**Environment: Java/J2EE,HTML4/CSS3 -MCL**, **Bootstrap**, **JavaScript, JSP, HTML,AJAX, JSON, MVC, JSP, SOAP based XML web services, singleton, Hibernate, Ant to Maven via Ivy, PL/SQL,TOAD, Oracle 8i**, **Junit, JBOSS**, **Workflows.**

**Client: Merit Systems Pvt Ltd; Hyderabad, India July 2009 – Aug 2011**

**Role: Java Developer**

**Project Description:** Merit Systems vision is to develop software products that would enhance business performance. With focus on the development of cutting edge software products. It has wide range of products include business process monitoring, event monitoring and corporate messaging products. we have launched a series of products in the areas of Messaging, Business Event Monitoring (BEM) and Business Process Management (BPM).

**Responsibilities:**

* Participated in System **design, planning, estimation** and **implementation.**
* Involved in developing use case diagrams, class diagrams, sequence diagrams and process flow diagrams for the modules using **UML and Rational Rose**.
* Developed the presentation layer using **JSP, AJAX**, **HTML**, **CSS** and client validations using **JavaScript**.
* Developed and implemented the **MVC** architectural pattern using **Spring framework**.
* Effective usage of **J2EE** design patterns namely **session facade, factory method, command** and **Singleton** to develop various base framework components in the application.
* Programmed one temple website using core **PHP**.
* Developed various **EJB**s (session and entity beans) for handling business logic.
* Developed **Session Beans** and data access object classes for accounts and other modules.
* Extensively used **Spring JDBC** in data access layer to access and update information in the database.
* Consumed Web Services using **WSDL** and **UDDI** from third party for authorizing payments to/from customers.
* Used **JAXB** API to bind **XML** Schema to java classes.
* Involved in Units integration using **JUnit**, bug fixing, and user acceptance testing with test cases.
* Used **CVS** for version control and **Maven** as a build tool.
* Used **Log4 CXX** for logging errors, messages and performance logs.
* Used **WebLogic** application server to deploy application.

**Environment: Java, J2EE, UML and Rational Rose**, **JSP,JAXB, XML, WebLogic 6.x/7.x, AJAX**, **HTML**, **CSS, JavaScript**, **Spring MVC framework, Singleton,Spring JDBC, WSDL, UDDI, PHP, EJB**’s, **Session Beans, Junit, CVS, Maven, Log4 CXX.**