**Sai K**

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**EXPERIENCE SUMMARY:**

* Over 8+ years’ experience in Back-end and Front-end development with an ability to handle any part of the process efficiently. To succeed in an environment of growth and excellence and let me work on the leading areas of technology, a job that gives me opportunities to learn, innovate and enhance my skills and strengths in conjunction with organization goals and objectives.
* Experience working with different SDLC (Software Development Life Cycle) including Requirement gathering, Analysis, Design, Coding, Testing and Implementation like **AGILE (SCRUM)**, **TDD,** and **Waterfall Models**.
* Expertise in implementing **Core Java SE 8** concepts like **Streams API, Lambda functions, Functional programming,** and **Generics**.
* Experience in implementing and deploying Java EE design patterns such as **Singleton, Abstract Factory, DAO, DTO,** and **Business Delegate** in the Development of Multi-Tier distributed Enterprise Applications.
* Expertise in developing **SOA (Service Oriented Architectures)** and **Microservice architectures** using J2EE web services based on **Restful(JAX-RS), SOAP(JAX\_WS), JAX-RPC, and JAXR(Java API for XML Registries)** using frameworks like **Apache CXF, Jersey, Apache Axis.**
* Worked extensively with **JAVA 8** features like **Time API, Functional Interfaces, CompletableFuture, Optionals, Multithreading, Transaction Management, Exception Handling, Collection API**.
* Unit tested web services using **Junit, Mockito Easy mock, Spring Junit Runner, Spock, Testing**, and achieved Test-Driven Development (TDD) goals.
* Widely used various open-source MVC architecture like **Struts 2.0**, **Spring** MVC, and Object Relational Mapping (ORM) Frameworks like **Spring JPA** with **Spring Data**, **Hibernate**, **IBatisMyBatis, and Spring JDBC**.
* Extensive experience in developing web applications using **HTML5, XML, XHTML, DHTML, CSS, CSS3(Sass,Less), Bootstrap, JavaScript, DOM, jQuery, Ajax, JSON,** and **JSP**.
* Strong experience with **EJB, Struts, Spring Boot,** Spring framework implementing modules: **Spring MVC, Spring Boot, Spring IOC, Spring IO, Spring AOP, Spring Security,** and **Spring Data**.
* Good understanding of Server-side JavaScript structures like **NodeJS, Hapi.JS, Express.JS**.
* Experienced in server-side view rendering Java 8 content structures like **React.JS** and rendering pages on the server-side utilizing **Redux** and **Flux** to accomplish unidirectional plan stream.
* Good Knowledge in **Amazon Web Services (Amazon EC2, Amazon S3, Amazon SimpleDB, Amazon Elastic Load Balancing, Amazon SQS, Amazon EBS, and Amazon CloudFront)**.
* Sound learning on the consistent mix and persistent deployment tools **like Jenkins, Hudson, Travis, Puppet, and Bamboo**. Substantial involvement in **UNIX and Shell scripting to automate the build scripts**.
* Extensive AWS Experience including AWS Services such as **EC2, VPC (NAT, VPC Peering and VPN), IAM (Identity and Access Management), Elastic Beanstalk, Lambda, S3, CloudFront, Glacier, SQS, SNS, RDS, DynamoDB, Route53, CloudWatch, CloudTrail, CloudFormation, Security Groups,** etc.
* Handled operations and maintenance support for **AWS cloud resources**, including launching, maintaining and troubleshooting EC2 instances, S3 buckets, Auto Scaling, DynamoDB, AWS IAM, and **Elastic Load Balancers (ELB)** and **Relational Database Services (RDS)**. Also created snapshots for data to store in **AWS S3**.
* Experience writing SQL queries in PL/SQL, Triggers, and Stored Procedures in Relational Database management systems like **Oracle, MS SQL, MySQL, and DB2**.
* Used **Kubernetes Linux container** for deploying and scaling containerized applications.
* Designed and developed highly scalable, available, fault-tolerant, highly secured, distributed infrastructure (IAAS) using **2 EC2** instances, **S3**, **EBS**, **API Gateway, Elastic Beanstalk, ECS**. Experience in configuration management tools like **Puppet, Chef, Docker** and used **AWSSDK** for connection to Amazon S3 buckets as it is used as the object storage service to store and retrieve the media files related to the application.
* Solid experience developing the rendering view **React JS** components, forms, events, routers, and **Redux asynchronous** functions and implemented **React - Flux** pattern for core dependency.

**TECHNICAL SKILLS**

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| **Web Technologies** | JavaScript, HTML5, CSS3, JQuery, AJAX, Node js, Angular 4/6, XHTML, JSP, JSTL, JSON, Bootstrap, PHP, Node.JS, Kendo UI |
| **Languages** | JavaSE, JEE, SQL, Pl/SQL, XML, Python, C |
| **Java Technologies** | JDBC, Servlets, Java Beans, JMS |
| **Design Patterns** | Singleton, DAO, MVC, Factory, Bridge |
| **Web Services** | REST(JAX-RS, Apache CFX), SOAP(JAX-WS, WSDL, Apache AXIS) |
| **Methodologies** | SDLC, Agile, SCRUM, SAFe |
| **Frameworks** | Spring 3.0, Hibernate 3.0, JSF 2.0, Apache CXF |
| **IDEs** | Eclipse 4.5, IntelliJ, WebStorm |
| **Version Control Tools** | Git, SVN |
| **Web/Application Servers** | Web Logic, JBoss, GlassFish, Apache Tomcat Server |
| **Deployment Tools** | Maven, Apache ANT |
| **Testing Tools** | JUnit, Karma, Jasmine, Log4j |
| **Databases** | Oracle12c,MySQL, DB2, MongoDB, Cassandra |
| **Operating Systems** | Windows, Mac OSX, Linux (Ubuntu) |

**PROFESSIONAL EXPERIENCE**

**State Farm Insurance Atlanta, GA Jan 2021 – till date**

**Project: Track Your Shipment**

**Role: Full Stack Java Developer**

**Description:**

This Company is well known for providing insurance and financial services in the United States. One of the Web Application CIQ involves the design and development of a Web based internet application to provide online insurance services. The web application provides functionalities such as Internet Insurance Quote for Customers and Agents. The customer can access complete account information, policy information, and receive instant auto insurance quote and report a claim

**Responsibilities:**

* Developed the single-page application following **Agile Scrum**, participated in daily standups, sprint reviews, Kickoffs, and used **Jira** for project management.
* Involved in Software Development Life Cycle for gathering requirements, Analyzing, Designing, Developing, and Testing applications using **Agile** methodology.
* The application is built in **Micro Service Oriented Architecture** using **MEAN 4+ (Mongo, Express Angular 8.0 and Node)** stack and developed **Single Page Applications (SPA)**.
* Developed multiple **Angular 11.0** components that are compatible with the latest versions of **typescript, angular CLI**.
* Created dynamic schema design through **NoSQL MongoDB** by writing rich queries and achieved data in a collection to be distributed across multiple systems for **horizontal scalability** as data volumes increase through **Sharding**.
* Implemented **Java11** features like **Lambda expressions, Streams, filters, pipelines, Optional Interfaces,** etc.
* Hands-on experience using **ODM frameworks** to connect asynchronous environments with **Mongoose Connector** and Cassandra Node Driver.
* Enhanced and **deployed Microservices** based applications using Spring Boot and Spring Cloud and created dynamic documentation for **RESTFUL web service using Swagger.**
* Worked with **KAFKA Zookeeper** for managing the cluster with **broker/cluster** technology.
* Designed the user interface screen and its functionality as per user requirements and developed **RESTful** Web services in **Mule ESB** based on Service Oriented Architecture **(SOA)**.
* Used different transformers, exception handling, testing & Security of **MulesoftESB** endpoint through **OAuth**.
* Designed and developed efficient user Interaction screens using **HTML5, CSS3-SASS,** and Twitter **Bootstrap CSS** framework and **media queries** to create responsive web pages.
* Configured **JBOSS** Application server and used **Oracle** database with **Hibernate ORM framework** and used the functionalities of **Hibernate's** second-level **EHCache.**
* Implemented **Microservices** architecture with **Netflix, Spring Eureka, Spring Ribbon** using **Spring Boot** to provide client-side load balancing in calls to other **Microservices**, making applications into smaller chunks and the Spring Hystrix circuit breaker and for the fail-safe.
* integrated external APIs seamlessly into **Netflix OS**, enabling additional functionalities and improving overall performance.
* Demonstrated ability to design intuitive user interfaces for **Netflix OS**, enhancing the viewing experience for millions of users.
* Experienced in troubleshooting and debugging **Netflix OS** applications, ensuring smooth functionality and optimal performance.
* Wrote **Drool rules** in both **rule flow** and **drooled fusion** for fetching the facts from the database.
* **Kubernetes** is configured in the application for automating deployment, scaling, and management of containerized applications.
* Used **Cassandra** for storing internal statements and reports and worked extensively in Development which includes updating and retrieving data internally from the back-end **Cassandra**.
* Implemented **AWS** solutions using **E2C, S3, RDS, EBS, Elastic Load Balancer**, Auto scaling groups, Optimized volumes, and EC2 instances and created monitors, alarms, and notifications for EC2 hosts using **Cloud Watch**.
* Configured and managed various AWS Services, including **EC2, RDS, VPC, S3, Glacier, CloudWatch, CloudFront, Route53, SQS, SNS** etc.
* Experience with Kubernetes and OpenShift to manage the containerized applications, creating and deploying application containers.
* Implemented a 'server less' architecture using **API Gateway, Lambda**, and **DynamoDB** and deployed **AWS Lambda** code from **Amazon S3 buckets. Created a Lambda Deployment function** and configured it to receive events from your S3 bucket.
* Hands-on experience on **Dump Analysis** and thread Dump common problem patterns (Thread race, deadlock, hanging IO calls, garbage collection / Out Of Memory Error problems, infinite looping, etc.).
* Implemented **Spring Netflix Zuul** API gateway and **Eureka service registry** for **reverse proxy** and **Dynamic service** discovery of APIs.
* Performed manual and regression **testing** using **JIRA X-RAY** tests, writing the scenarios.
* Responsible for migrating existing modules in **IBM MQ** to **Apache Kafka** and creating Kafka adaptors for decoupling the application dependency.
* Experience in **Java11** features like **Parallel Streams, Lambdas, functional interfaces, and filters**.
* Worked with **Jenkins** to configure **Continuous Integration** and **Continuous Deployment** (CI/CD).
* Implemented Spring Circuit breaker pattern, integrated **Hystrix** dashboard to monitor Spring microservices.
* Participated in code review and mentoring sessions and used **GIT** as version control and **GITBash** for **GIT** interactions.
* Experience in building isomorphic applications using React.js and Redux with **GraphQL** on the server-side.
* Experience in working with **GraphQL** queries and use the Apollo **GraphQL** library.
* Experience working with (consuming) **REST** or **GraphQL** APIs via client-side JavaScript or server-side via NodeJS.
* Authenticating Users to provide security to RestFul web services using **OAUTH2.0**.
* Worked on UI testing with **Karma, Jasmine, Protractor** for Angular, **Mocha,** and **Chai** for React JS and Backbone JS.

**Environment:** Angular JS, HTML5, CSS3, AJAX, Bootstrap, Redhat,JSON, XML, Active MQ, JMS, Hibernate, DB2, SOAP-AXIS2, Restful services, JAX-RS SOA, Eclipse Java EE IDE Neon, Jenkins, Git, Log4j, DB2, Grunt, Jasmine, JBoss, Jenkins, OpenShift, Drools, Maven, TestNg, Protractor, Microservices, Grunt, Selenium, Cucumber, WADL.

**CTIS Inc., Rockville, MD Sept 2018 to Dec 2020**

**Project: Cancer Therapy and Evaluation Program**

**Role: Full-Stack Java Developer**

**Description:** Cancer Therapy and Evaluation Program **(CTEP)** is monitored under NIH as a part of monitoring and regulating the procedures followed during the audits at the sites during clinical trials. We are building a new module called **CAPAs** which help communicating the reports and audit status at sites. This module consists of various features including reports management and comments on recent scheduled audits.

**Responsibilities:**

* Responsible for the overall layout design and prototype using **React JS** with **Redux** library, **jQuery UI,** and **CSS/Less** and **HTML5**.
* Implemented **Node JS** as a **server-side proxy** for an event-driven, non-blocking I/O model to make the application lightweight and efficient.
* Extensively worked in writing minimal code in building re-usable forms with their validations using **REACT with Redux** Architecture.
* Good knowledge of Lambda expressions, Time APIs, and **Java 8** core features
* Define requirements and specifications for Development using **Oracle R12, Oracle Forms, Oracle Reports** and **SQL**.
* **Web pack module bundler** and **Babel** JavaScript compiler are used accompanying **React JS**.
* Implemented **Spring Boot** to create a **CRUD** back-end for our **React-frontend** application.
* Worked with **Jenkins** Continuous Integration and Continuous Deployment (**CI/CD**).
* Experience in **Docker** Engine and **Docker** Machine environment, to deploy the micro services-oriented environments for scalable applications.
* Optimized cleaning up of session-level **Data Structure's** shared across different open tabs when data is flushed/committed from one of the tabs.
* Implemented **Struts** encouraging application architectures based on the **Model View Controller (MVC)** design pattern and **Struts 2** framework for front-end development and presentation logic.
* Developed JavaScript for all client-side validations and developed **GUI** using **CSS, JSTL, and XSL.**
* Apply focused development changes across **oracle** databases and see the changes applied through the life cycle of environments and testing into production via **internal deployment tool**.
* **JUnit**is implemented along with **Mokito** to perform unit testing on our **RESTful** web application.
* DevOps role converting existing AWS infrastructure to Server-less architecture (**AWS Lambda, Kinesis**) deployed via CloudFormation.
* Dockerized Spring Boot application to Pivotal Cloud Foundry **PAAS** (Platform as a service).
* Performed Unit testing on **ReactJS, Microservices**, **RedHat** applications using Karma and Jasmine tools and worked with the Gulp tool to build automation.
* Worked with container-based application deployments using **Docker** with **Kubernetes**.
* Experience integrating the internal security model into new projects with **Spring Batch**, Spring **Microservices** and **Spring Boot**, **Pivotal Cloud Foundry,** and **Netflix Eureka.**
* Performed Unit testing on applications using tools **Mocha** to test Reactjs and **Chai** for Node.js.
* Experience in integration testing tools like **Selenium Web Driver, Cucumber (Behaviour Driven Development testing).**

**Environment:** Angular JS, HTML5, CSS3, AJAX, Bootstrap, JSON, XML, Active MQ, JMS, RedHat, Hibernate, DB2, Grunt, Jasmine, JBoss, Jenkins, OpenShift, Drools, Maven, Test Ng, Protractor, Grunt, Selenium, Cucumber, WADL.

**Parexel International, Hyderabad, India Jan 2017-Aug 2018**

**Project: Patient Management Module**

**Role: Full - StackJava Developer**

**Description:** PAREXEL International is a global provider of biopharmaceutical services. It conducts [clinical trials](https://en.wikipedia.org/wiki/Clinical_trial) on behalf of its pharmaceutical clients to expedite the drug approval process. It is the second largest clinical research organization in the world. The objective of the project is to develop the application software that helps in maintaining patient health records under HIPAA compliance. The product consists of various features, functionalities and modules like managing patient info, appointments and scheduling system.

**Responsibilities:**

* Implemented responsive web-based applications using **HTML5, CSS3, JavaScript, jQuery.**
* Developed **SCM** by using the **JSP/HTML** for each user interface. Servlets standard validations are used as the controllers for business logic and using **JDBC, XML** parsing techniques using **MVC**.
* Experience in installing, configuring, and deploying applications on **Web Logic Server**.
* Developed a **DAO** pattern to retrieve the data from the database.
* Designed a mailing application to send notifications to the **Oracle** users for intimating to start the following workflow.
* Used **Multithreading** concept to post data from files to tables involving the transformation of files from one format to another.
* Responsible in developing integration workflows using Mule ESB framework and implemented Data weave and content based routing using Mule ESB.
* Developed **CI/CD** system with Jenkins on Kubernetes environment, utilized Kubernetes and Docker for the runtime environment for the **CI/CD system to build, Test and Deploy**.
* Used Amazon Cloud Watch to monitor **AWS** services and Amazon Cloud Watch logs to monitor application and involved in writing **Java API** for **Amazon Lambda** to manage some of the **AWS services.**
* Used Amazon Elastic search service for application monitoring and full -text search.
* Working with **GIT** version control and **HPALM SDLC** lifecycle management of keep track of bugs and backlogs
* Developed business layer components using **Spring & Hibernate**, and **GUI** using **JSP, GWT & XMI.**
* Written Hibernate classes, DAO's to retrieve & store data, configured **Hibernate files.**
* Involved in bug fixing during the dev and production.
* Configured **Struts-config.xml, Tiles-def.xml,** and various properties files provided by Struts Framework for the implementation module.
* Extensively used the **Struts tag libraries (Bean Tags, Logic Tags, HTML Tags, etc.) and Custom tag libraries.**
* Developed web applications using **Struts, Spring, and iBatis** framework.
* We kept up the bean life cycle by utilizing **Spring IOC,** which keeps session information about beans.
* Worked with **Log4J** to capture the log that includes runtime exceptions.
* Deployed application on the **Client Linux server**.
* Implemented **IBM WebSphere** Application Server to deploy the application.
* Used **ANT** build tool for compiling and generating war files.

**Environment:** Java 7/8, Spring 4.3, Hibernate4, HTML5, CSS3, XML, MySql 5.7, Bootstrap, Angular2/4, Spring Boot, Restful Web Services, Swagger, Tomcat 1.8, Maven 3, Eclipse Oxygen, Junit 5, Weblogic 12

**Akana Software, Hyderabad, India June 2015- Dec 2016**

**Project: Policy Manager**

**Role: Software Engineer**

**Description:** Akana was a provider of computer software products for service-oriented architecture. Policy Manage is a comprehensive SOA Policy Governance Automation solution offering unique governance process and collaboration capabilities to instill consistency and accountability and encourage desired behavior. Policy Manager provides comprehensive SOA Governance tools for all the different roles in the organization including; service developer, consumer developer, architect, business stakeholder, IT operations, security operations, and more. It uses a role-based security model for authorization of policy-driven SOA Governance process control such as service publishing and provisioning process approvals, and to protect sensitive information.

**Responsibilities:**

* Developed the application using **SPRING MVC** framework based on **Model View Controller (MVC)** design pattern.
* Created and Consumed **RESTful** Web services written in **Java**.
* **POJO** based domain model integrated with **Hibernate ORM** for persistence Aggregation of data based on the summarized data of Supply Chain.
* Designed **REST APIs** supporting **JSON** that allow sophisticated, effective and low cost application integration.
* Setting up Linux servers with **Apache Tomcat**, **Maven**, and **MySQL**.
* Used **Spring** framework for **Dependency Injection (IOC)**.
* Implemented transaction management features using **Spring-AOP**.
* Used **Log4J** to capture the log that includes runtime exceptions.
* Utilized**Core Spring Framework** for **Dependency Injections** of components as well as transaction management.
* Used **Subversion** for version control and **Maven** as a building tool.
* Extensively utilized **ORM framework Hibernate** with **DAO layer** to achieve **Oracle database CRUD** operations.
* Created various**Junit Unit Test Cases**by using **Test Driven Development (TDD)** technique.
* Expertise in **Agile** SDLC methodology & project planning using **JIRA**.

**Environment:** Java 1.6/1.7, Spring MVC, Hibernate3.x, Apache Tomcat, Oracle11g, Log4J, JSP, SOAP/RESTWeb services, Eclipse 3.3, Maven. JQuery, AJAX, JUnit4.

**EDUCATION**

Bachelors in Computer Science, SASTRA UNIVERSITY, 2015