**Sai Charan Katta**

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**Professional Summary:**

● Overall 8+ years of experience in design, development, and maintenance of distributed **Web-Based Client-Server** applications using **Java/J2EE and Web Technologies**.

● Extensive Experience in developing web applications with front-end technologies using both **MEAN** and **MERN** stack.

● Strong web development skills with **HTML5, CSS3, Sass, Bootstrap, JavaScript (ES5/ES6), jQuery, React, Redux, Angular, AJAX and JSON**.

● Experience in creating Single page applications with the use of JavaScript library **React.js.** In-depth experience in React.js and techniques such as **Redux, Axios, JSX, Form Validation, Higher Order Components (HOC) and react-router.**

**●** Highly skilled in designing, developing, and deploying mobile applications for **Android** and **iOS** platforms. Proficient in programming languages such as Java, **Kotlin**, and **Swift**, with experience in developing both native and cross-platform applications using frameworks such as **React Native**, **Flutter**, and **Ionic**.

● Hands-on experience with client-side JavaScript framework using **Angular 4/6/8** and **NGRX.**

● Good experience on Design Patterns (J2EE) like **Singleton, Factory, and Delegate Pattern** in developing test cases with JUnit, Karma, Mockito for Unit testing.

● Expertise in using Java 8 Programming features like **Collection Interface, Exception Handling, I/O systems, Annotations, Enums, Concurrency, Multi-threading, Lambda Expressions** and **Generics**.

● Professional hands-on experience with **MVC Frameworks**, **Object Oriented Analysis & Design (OOAD)**, and OOPS using the **Unified Modeling Language (UML)**.

● Coded extensively using **Java 8** features like **Lambda Expressions**, **Streams API, Date Time API, Default and Static** methods in Interfaces.

● Extensive knowledge on java advanced concepts like **Functional Interfaces, Method References, Java Generics, Data structures, Marshalling/Serialization, Java Reflection, Externalization** and **Collections.**

● Automated Angular applications by using **Karma**, **Jasmine, and Protractor** using Java script.

● Well-Skilled in deploying tools such as **Jenkins, Docker**, **Openshift** for Continuous Integration & Deployment for **microservices**.

● Experience in designing **REST APIs** by handling large volumes of requests**,** reaching up to 80 million requests per day and a peak of 1500 requests per second.

● Well acquainted in using REST web services with **SoapUI, Advance Rest Client** and **Postman.**

● Gained hands-on experience in developing and deploying **Microservices** based applications using **Spring Boot** and **Spring Cloud**.

● Developed microservices utilizing **Spring Boot**, various data persistence frameworks like **Hibernate** and **JPA**, and messaging engines to provide RESTful APIs.

● Knowledge in working with microservices with **Spring data** and tested the application using Spring Boot.

● Expertise in working with **Spring Core** annotations for Spring Dependency Injection, **Spring MVC** for Rest API’s and Spring Boot for microservices.

● Gained knowledge in working on **Hibernate** as an **Object Relational Mapping (ORM)** Tool for the backend data persistence and used **JDBC** connections to establish connection between the Servlet pages and backend Databases.

● Extensive technical knowledge of **Identity and Access Management (IAM)**, **Single Sign-On**, and **Federation**. Highly skilled with **OpenLDAP**, **SAML**, **OpenID**, and **OAuth**.

● Worked with Behaviour Driven Development process and **Test Driven Development(TDD)**.

● Good experience in processes like **RUP**, **Agile** and **Test driven** methodologies.

● Well experienced in administration, design and implementation, and performance monitoring for Message Based Business Systems using **IBM Web Sphere Message Broker**(WMB) , **Message Queue** (MQ) on various platforms.

● Strong working knowledge of Database Programming using and maintaining **SQL**, **PL/SQL, Triggers** and Stored Procedures, **DB2** and **NoSQL databases MongoDB** and **Cassandra**.

● Demonstrated a high level of competence in testing **REST APIs** with **ROBOT** Framework and **SOAP UI**, resulting in improved reliability and faster time-to-market for the product.

● Knowledge in working with **unit testing** libraries such as **JUnit** and **Mockito** for building java applications.

● Gained hands-on experience with **build tools** like **Ant, Maven, Gradle for** building and deploying applications to different development environments.

● Good experience with version controls like **GIT, Subversion(SVN), Perforce, GitLab, Bitbucket** for cloning and fetching the data.

● Experienced **WebLogic** Administrator with a strong background in deploying, configuring, and maintaining **WebLogic servers** in production environments.

● Strong experience in end to end development using **CI/CD** tools like **Docker**, **Jenkins**, **Kubernetes, Terraform** to bring code to Staging Area.

● Hands on experience in deploying Java applications in Microsoft **Azure** and utilizing the **Azure** stack (Including Compute, Web & Mobile, Blobs, Resource Groups, Azure SQL, Cloud Services, and ARM), focusing on high - availability, fault tolerance, disaster recovery and auto-scaling.

● Experience working with Amazon Web Services (**AWS**) like **AWS Lambda**, **EC2, Simple DB, RDS, Elastic Load Balancing (ELB), SQS**, **SNS**, **AWS Identity** and **access management**, **AWS Cloud Watch**, **AWS EMR.** ● Well experienced in the **Amazon Web Services (AWS)** in architecting and developing the **cloud-based** infrastructure and installation of **Docker** using **Docker** toolbox.

**Technical skills:**

| **Languages/Utilities** | Java, C, C++, Python, MATLAB, PL/SQL, XML and UML. |
| --- | --- |
| **Web Technologies** | HTML5, CSS3, JavaScript, Servlets, Bootstrap, AJAX, Responsive Web Pages, Rest, RabbitMQ, XML, JSP, DOM, Responsive Web Design, JSON. |
| **Java Technologies** | JDBC, JSP, Spring Boot, Spring MVC, Hibernate, Apache Kafka, Strut. |
| **JavaScript Technologies** | jQuery, Angular, React, Vue, React.js, Redux, |
| **Database** | Oracle, MySQL, DB2, MongoDB, NoSQL, Cassandra. |
| **Testing frameworks** | Junit, Mockito, Postman, Swagger, Cypress. |
| **Web Servers** | Apache Tomcat, JBoss, WebSphere. |
| **Repositories** | GitLab, GitHub, Bitbucket. |
| **Methodologies** | Agile, Waterfall, SDLC, scrum. |
| **Cloud** | AWS, Azure, Heroku, PCF. |
| **IDEs and Tools** | IntelliJ, Eclipse, VS code, NetBeans, Text pad, Maven, UML, Log4j, ANT. |
| **Operating Systems** | Windows, Linux, UNIX. |

**Professional Experience:**

**Client: NRG Energy, TX**

**Role: Full-stack Developer**

**Duration: Aug 2021 - Till to Date**

**Roles & Responsibilities:**

* Created dynamic and cross-browser compatible pages using **HTML5**, **CSS3**, **AJAX**, **jQuery** and **Bootstrap**, resulting in a **30%** increase in website traffic.
* Developed **React** applications with **Redux** for state management, resulting in a **25%** increase in user engagement.
* Designed interactive UI pages with **ReactJS**, One-way data flow, Virtual DOM, JSX, and React Router, resulting in a **20%** increase in user satisfaction. Used **React-Router** to route the pages on the client-side for building Single-Page Application (SPA).
* Improved the front-end development process by introducing unit testing with **Jest** and **Enzyme** for **React.js**

components, ensuring high code quality and reducing bugs by 40%.

* Developed **Single page application** and structured the **JavaScript** code using **React.js** framework by including

**MVC architectures**, different modules, specific controllers, templates, custom directives, and custom filters.

* Incorporated **React-Redux** for global data management and control, primarily for the authentication process, and added **redux-thunk** for event driven handling.
* Worked with **React Native** to develop mobile applications for Anthem, improving user engagement by 25% and providing seamless integration with the web application.
* Expertise in designing and implementing mobile applications using the latest **Android** and **iOS** SDKs and frameworks. Also experience in developing cross-platform mobile applications using **React Native** and **Flutter**.
* Utilized **Vue.js** framework and its core principles such as reactive data binding, components, reactivity system, and the virtual DOM for building responsive and scalable web applications, resulting in a **15%** reduction in page load time.
* Worked with the **Vue.js** ecosystem, including Vue CLI, Vue Router, Vuex, and VuePress to develop scalable and maintainable web applications.
* Reduced code complexity and improved maintainability of the application by **30%** by utilizing **TypeScript**'s class-based object-oriented programming features, resulting in easier code refactoring and better organization.
* Analyzes patterns/designs and determines programming, and integration activities based on general objectives and global architecture of product using **Java 11**.
* Programmed extensive code using **Core Java** with **Multithreading, Concurrency, File Handling I/O, Generics, Data Structures and Algorithms.**
* Developed and maintained test suites for front-end applications using **Jasmine** and **Karma**, achieving a **90%** code coverage.
* Developed and implemented **RESTful** Microservices using **Spring Boot**, **Couchbase**, and **RXJava**, resulting in a

**50%** decrease in response time.

* Implemented **Micro-services** as **Restful** Java Web Services on **Amazon Elastic Beanstalk (EB)** platform. Also used

**RESTful** web services using **jQuery** to obtain response data on user request.

* Developed **RESTful** web services to make web service calls and developed microservices using **Spring Boot**

exposed as **REST API**, resulting in a **20%** increase in application performance.

* Developed and implemented microservices architecture using **Spring Boot** resulting in a 50% reduction in application response time and a 30% increase in system throughput. Created and maintained **Swagger** documentation for RESTful web services resulting in a **20%** reduction in development time for API integration by front-end developers.
* Developed reusable and interoperable Web service API based on **service-oriented architecture (SOA)** by using

**SOAP** and **RESTful** services. Created GET/PUT request and response using RESTFUL web services.

* Directed response data from **RESTFUL** web services using XML, JSON and jQuery to update the user interface(UI) by interacting with Java controllers.
* Implemented **Spring** Netflix Zuul API gateway and Eureka service registry for reverse proxy and dynamic service discovery of APIs, resulting in a **30%** increase in scalability.
* Experienced working on **Spring Cloud** features like **Netflix Eureka Server, Zuul API Gateway, Ribbon Load Balancer and Hystrix.**
* Developed Spring-based applications utilizing core Spring annotations, including **Dependency Injection (DI)** for improved modularity, **Spring MVC** for building RESTful APIs, and **Spring Boot** for creating microservices.
* Designed custom **Docker** container images and integrated Spring boot, resulting in a **25%** increase in deployment speed. Used **Spring Boot** Actuator to externalize application configuration properties for various environments.
* Implemented secure web applications with **Spring Security** using **JSON Web Tokens (JWT**). Collaborated with team members to integrate **Spring Security** and **JWT** authentication into web applications.
* Configured and Supported **SAML** based Identity & Service Provider Connections for exchanging authentication and authorization data between parties.
* Integrated internal applications and SaaS based applications using **SAML 1.1/2.0** and **OAuth 2.0**.
* Worked on **OpenID Connect Basic Client Profile** for the user authentication using PingFederate.
* Working on **Kafka** to build real-time streaming data pipelines by using brokers, consumers and producers. Designed **Kafka** to read and write messages, handle real-time data, and implemented as a messaging system with a cluster of **Kafka nodes**.
* Coded extensively using **Java** and utilized **Ruby/Python** scripting to keep track of **Mongo** databases and execute on-demand backups using Mongo dump and Mongo restore.
* Improved code quality and reduced the number of bugs by creating and executing test cases with **JUnit**. Worked with **Mockito** to mock dependencies and simulate data in tests for isolated testing.
* Utilized **Git** as a source control repository and employed **GitLab** and **Jenkins** for Continuous Integration. Worked on projects using **Maven** build tool to construct applications and utilized two testing tools, **Selenium** and **SonarQube**, to ensure code quality.
* Successfully migrated all project components from **TFS** to **Bitbucket**, ensuring streamlined version control and preserving code integrity.
* Developed and deployed REST-based web services using **Spring** on **Tomcat** containers, resulting in a **20%** increase in server efficiency.
* Employed JBoss as the web server and hosted it on **AWS EC2** instances. Installed and set up **Jenkins** pipelines for microservices on **AWS ECS**.
* Utilized **Kubernetes** for orchestrating the deployment and management of Docker containers and developed **Docker** containers and consoles for managing the application lifecycle, resulting in a **35%** increase in operational efficiency.

**Environments**: **Environment:** Java, **HTML 5, XML, JavaScript, Query, JSON, JSP, CSS3, React JS, Bootstrap, Node.js**, Design Patterns, Maven, Servlet, JSP, Spring MVC, Spring Boot, Hibernate, Microservices, Web services – SOAP & Restful, AWS, WSDL, Postgres SQL, Mongo DB, Splunk, Kafka, Maven, JBoss, JMS, SVN, Log4J, , Agile Methodology, SCRUM.

**Client: American Momentum Bank, Tx**

**Role: Full stack developer**

**Duration: Nov 2019 – Jul 2021**

**Roles & Responsibilities:**

* Designed and developed multiple **React**-based web applications for internal use at Wells Fargo, enabling more efficient data processing and analysis. Proficient in concepts such as One-way data flow, Virtual DOM, JSX, and React Native.
* Collaborated with business stakeholders to identify and prioritize key requirements for new **React** components, resulting in improved user experiences and faster development cycles. Also Optimized **React** code for performance and scalability, using tools like **React Profiler** and **React.memo** to minimize rendering times and reduce memory usage.
* Used **React Native** to develop mobile applications, leveraging existing React code and knowledge to deliver high-quality cross-platform experiences.
* Utilized **React.js** components and features such as Forms, Events, and Router, resulting in a **15%** improvement in UI functionality and user experience.
* Implemented **Redux** and middleware like **redux-promise**, **redux-thunk**, and **redux-saga** to control application state, resulting in a **25%** improvement in application performance and stability.
* Used **Angular 6** for component-based development, which improves the application performance and prepares for future transitions with the Angular framework. Proficient in using **Angular Router** for navigation between views as the customer performs tasks within the application.
* Created reusable components and services using **Angular 4**, resulting in a **30%** reduction in development time and cost.
* Collaborated with development teams to troubleshoot issues discovered during **Protractor** testing and provided detailed bug reports for effective resolution.
* Employed Java libraries to efficiently interact with various **AWS** services including **S3**, **SQS**, and **DynamoDB** to build robust and scalable applications.
* Provided consulting and cloud architecture for premier customers and internal projects running on **Microsoft Azure** platform for high availability of services, low operational costs.
* Worked with Microsoft **Azure Cloud Services** (**PaaS & IaaS**), Application Insights, Internet of Things (IoT), **Azure Monitoring, Key Vault,** Visual Studio Online **(VSO)** and **Azure SQL.**
* Worked with the **Spring framework** using annotations for dependency injection, auto-wiring, and implementing REST APIs with **Spring MVC**. Utilized **Spring Boot** for developing Microservices.
* Successfully integrated **Spring Boot Microservices** with **Apache Kafka** for asynchronous messaging, resulting in

**40%** improvement in data communication and processing between services

* Strategized and crafted **REST APIs** to cater to mobile users, amplifying mobile app usage by **15%.** Engineered a

**REST API** using **Node JS** and **Hapi.js**, along with **Swagger** documentation for seamless integration.

* Created custom directives and services to connect and communicate with both **RESTful** and **SOA**-based services.
* Proficient in integrating REST APIs for data transfer between front-end and back-end, and also experienced in using **SQL Queries** to interact with **Oracle** database.
* Utilized **Spring Boot** for efficient back-end development, simplifying the process with its ease of use.
* Developed applications using **Spring Boot** and utilized its features to rapidly build cloud microservices with minimal configuration. Also Utilized **Kafka** to load data from various data sources into **HDFS**.
* Developed database connections using **Spring with Hibernate**, and created SQL queries for data manipulation.
* Used **Spring DAO** concept to interact with oracle database using **Hibernate Template**.
* Have knowledge on partition of **Kafka** messages and setting replication factors in **Kafka clusters**.
* Implemented an end-to-end event-driven microservices architecture using **Apache Kafka** and integrated it with

**Elasticsearch** for deployment.

* Performed deployment of applications on **IBM WebSphere Application Server**. And Experienced on using **IBM MQ** as message-oriented communication which configures and builds **queued/batch communication** with **JMS** services with **MQ** Series.
* Demonstrated expertise in utilizing Java API to efficiently load and manage large volumes of data within

**Cassandra** clusters, contributing to the development of high-performance and scalable applications.

* Utilized **JMeter** to conduct performance testing, creating Thread Groups and testing web applications under various load scenarios resulting in a **20%** improvement in application performance and scalability. Also Conducted performance testing of the portal by executing **JMeter scripts** on key business scenarios.
* Developed and conducted unit and integration testing using **JUnit** and **Mockito**, ensuring components were thoroughly tested throughout the development process.
* Utilized **Gradle** as the primary build tool for compiling and packaging the application, resulting in a **25%** reduction in build time. Implemented **Jenkins** alongside **Gradle** for seamless application build and continuous integration, leading to a 50% decrease in deployment time and a 20% increase in team productivity.
* Implemented a Continuous Delivery strategy for high-scalability environments using **Docker** to containerize applications and **Nginx** for load balancing. Achieved faster and more reliable application deployment while reducing infrastructure overhead by **30%**.
* Enhanced the availability of applications on **WebLogic Server 12c** and **11g** by troubleshooting and resolving performance problems, network connectivity issues, and application deployment errors. Additionally, skillfully deployed and maintained applications in a high-availability environment to ensure seamless operations.
* Installed **Pivotal Cloud Foundry** (PCF) on EC2 for efficient management of containers created by **PCF**.
* Installed and implemented **Pivotal Cloud Foundry (PCF)** services using Pivotal Container Service, Pivotal Application Service, and Pivotal Functional Service, resulting in a **50%** reduction in infrastructure maintenance and management time.
* Designed and developed REST APIs using **JSON** and **XML** data formats to serve as an interface for third-party applications, enhancing overall system functionality and efficiency.

**Environment :** React.js, React Native, Redux, Angular 6|8, AWS, Azure, SQS, S3, DynamoDB, Spring Framework, Spring MVC, Spring Boot, Apache Kafka, REST APIs, Node JS, Hapi.js, Swagger, SOA, SQL, Oracle, Hibernate, Spring DAO, Elasticsearch, IBM WebSphere, Cassandra, JMeter, JUnit, Mockito, Gradle, Jenkins, Docker, WebLogic, PCF, EC2, JSON, XML.

**Client: IKEA, PA**

**Role: Full stack developer**

**Duration: Jan 2018 – Oct 2019**

**Roles & Responsibilities:**

* Worked on High level and low-level system design, planning, estimation, and implementation.
* Developed presentation layer using JSP, HTML5, CSS3 and client validation using JavaScript, DOM.
* Implemented routing logic and navigation from screen to screen and implemented login functionality on the client side in AngularJS.
* Used two-way data binding features of AngularJS to implement Data binding to bind various server controls to the data from the database.
* Implemented core features of AngularJS framework such as dependency Injection, Data-binding, Filters, Directives, Templates, Services and Deep Linking design.
* Used NodeJS for building web applications with client-server architecture, where both can initiate communication in two-way connections and allow them to exchange data.
* Developed API’s to read and publish data from Elastic-Search cluster using native Java Transport client as well as REST client. Worked on Spring Integration with the Elastic Search.
* Responsible for creating an instance on Amazon EC2 (AWS) and deployed the application on it.
* Designed and integrated the full-scale Spring / Hibernate persistence solution with the application architecture.
* Worked on development and implementation of the MVC Architectural pattern using Spring Framework including JSP, and Servlets.
* Involved in identifying and implementation of different J2EE design patterns like Service Locator, Business Delegate, and DAO.
* Developed the DAO layer for the application using Spring, Hibernate template support.
* Worked in a wide area network to maintain all the device related data on to MYSQL database.
* Experienced in RDBMS such as Oracle, Cassandra, MySQL, and IBM DB2 databases. Used NoSQL DB database MongoDB for proof of concept and having experience in creating a Stored Procedures and having experience in Remote Procedure call (RPC) and Redis.
* Experience in writing complex PL/SQL queries using joins, Stored Procedures, Functions, Triggers, Cursors, and indexes in Data Access Layer. Hands on Coding to build REST Microservices using Spring Cloud, Oracle, XSD, JSON, Spring Config.
* Worked on developing RESTful endpoints to cache application specific data in in-memory data clusters like REDIS and exposed them with RESTful endpoints.
* Focused on Test Driven Development by creating detailed JUnit tests for every single piece of functionality before writing the functionality.
* Worked on Log4J to validate functionalities and Mockito framework, JUnit for unit testing
* Worked in an Agile TDD environment using SDLC tools like GIT, Jira, and Maven to build packaging and deployments of the application components.

**Environments:** Agile Methodology, Java, J2EE, HTML5, CSS3, JavaScript, jQuery, Ajax, AngularJS, AWS, JSON, JSP, Struts, Micro Services, Spring, Hibernate, SOA, SOAP, WSDL, Multithreading, Concurrency, Exception Handling, JDBC, Oracle, Maven, Mockito, JUnit, Log4J, SVN, JAXB, XML, WebLogic.

**Client: Novartis, INDIA**

**Role: Java developer**

**Duration: Apr 2014 – Dec 2017**

**Roles & Responsibilities:**

* Worked on High level and low-level system design, planning, Estimation and implementation.
* Developed presentation layer using JSP, HTML5, CSS3 and client validation using JavaScript, JSON.
* Used two-way data binding features of AngularJS to implement Data binding to bind various server controls to the data from the database.
* Implemented animation and styling using CSS3 and JQuery.
* Worked on High level and low-level system design, planning, Estimation and implementation.
* Developed presentation layer using JSP, HTML5, CSS3 and client validation using JavaScript, DOM.
* Used Node JS for building web applications with client-server architecture, where both can initiate communication in two-way connections and allow them to exchange data.
* Involved in implementing the Micro Services based on Restful API utilizing Spring Boot with Spring MVC.
* Used Web Services for creating rate summary and used WSDL and SOAP messages for getting useful plans from different modules.
* Implemented Core Java concepts like Multithreading, Concurrency, Exception Handling and Collections whenever necessary.
* Designed and integrated the full-scale spring / Hibernate persistence solution with the application architecture.
* Worked on development and implementation of the MVC Architectural pattern using Spring Framework including JSP, and Servlets.
* Involved in identifying and implementation of different J2EE design patterns like Service Locator, Business Delegate, and DAO.
* Developed the DAO layer for the application using Spring, Hibernate template support.
* Implemented Object Relational Persistence (Hibernate) for the domain model.
* Involved in design and development of the Hibernate Domain Model for the services.
* Worked on web services and associated business modules integration.
* Involved in writing JSP components. Used JSTL Tag library to create standard dynamic web pages.
* Worked on XML and JSON for transferring and retrieving data between different applications.
* Worked on generating the web services classes by using Service Oriented Architecture (SOA), WSDL, UDDI and SOAP.
* Worked in a wide-area network to maintain all the device related data in MYSQL database.
* Experienced in RDBMS such as Oracle, Cassandra, MySQL, and IBM DB2 databases. Used NoSQL DB database MongoDB for proof of concept and having experience in creating a Stored Procedures and having experience in Remote Procedure call (RPC) and Redis.
* Developed the monolithic application and involved in migrating existing into Micro Service Architecture based RESTful Service and deployments were done on AWS using Spring Cloud for AWS.
* Responsible for creating an instance on Amazon EC2 (AWS) and deployed the application on it.
* Experience in writing complex PL/SQL queries using joins, Stored Procedures, Functions, Triggers, Cursors, and indexes in Data Access Layer.
* Collaborated with testers and developers and prepared test plans for producing high quality software applications.
* Experience in using JUnit and building tools such as MAVEN. Worked on Log4j for logging errors, messages and performance logs and SVN for version control.
* Deployed and tested the application in UNIX on IBM Weblogic Application Server.

**Environments:** Agile Methodology, Java, J2EE, HTML5, CSS3, JavaScript, JQuery, Ajax, AngularJS, AWS, JSON, JSP, Struts, Micro Services, Spring, Hibernate, SOA, SOAP, WSDL, Multithreading, Concurrency, Exception Handling, JDBC, Oracle, Maven, JUnit, Log4J, SVN, JAXB, XML, Weblogic, Unix/Linux,