SACHIN MC REDDY

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**SUMMARY**

* Result-oriented and innovative Software Developer with Full Stack and Kafka Admin experience of 8 years developing **Single Page Applications (SPA)** using JavaScript frameworks like **React.js, and Redux**, **Angular** for UI and **Node.js, Express.js** for microservices and serverless functions along with expertise in Administration and Operations experience, in Big Data and Kafka architecture.
* Proficient in both front-end and back-end technologies, with a strong focus on creating scalable and efficient solutions.
* Expert in developing cloud-native applications and integrations using distributed (event-driven and streaming) architecture.
* Proficient Level Expertise in deploying UI applicationusing **AWS, PCF** and **Azure** Platforms.
* Built over fully functioning **CI/CD pipelines** for applications from scratch deploying applications on **VPC** and **on-prem.**
* Integrating **Splunk** by creating Splunk **Dashboard**, creating Splunk **email, alert** feature.
* API testing using **SoapUI, Postman** and load testing using **LoadRunner**.
* Experience with the Apache Kafka eco system such as **Kafka Connectors**, REST Proxy, developing applications or managing Apache Kafka clusters.
* Experience in Kafka Mirror Maker, Experience in High availability cluster setup, established best practice standards for configuring Source and Sink connectors.
* Hands on experience in standing up and administrating Kafka platform which includes creating a backup & mirroring of Kafka Cluster brokers, broker sizing, topic sizing, h/w sizing, performance monitoring, broker security, topic security, consumer/producer access management (ACL).
* Handled all environment builds, including design, capacity planning, cluster setup, performance tuning, and ongoing monitoring (**Confluent Kafka, Kafka Connect, Apache Spark**)
* Proficient in designing microservices applications with docker and Continuous Integration (CI) and Continuous Deployment (CD) using Jenkins and **AWS Code Deploy**.
* Good written, oral communication skills & Interpersonal skills with a strong ability to excel through collaboration with team members.

**TECHNICAL SKILLS**

* **Development language:** JavaScript, TypeScript, shell scripting, Python, JAVA, Spring Boot.
* **UI Framework:** ReactJS, Redux, Angular 10+.
* **Back-end:** Node.js, Express.js, RESTful APIs,
* **Databases:** MongoDB, SQL, MySQL, Cassandra, KSQL.
* **CI/CD:** Node, SourceTree, JVM, Maven, RLM, Git, Terraform, Argo.
* **Testing**: Mocha, JUnit, Karma & Jasmin, Mockito.
* **Kafka Stack:** Kafka Brokers, Zookeepers, Apache Kafka, Confluent Schema Registry, Kafka Connect, Debezium, Kafka Source/Sink connectors for HDFS,ACLs, SASL, Kafka Mirror Maker, Kafka Cloud, Confluent Control Center.
* **Kafka Validators**: AvroConverters, JsonConverters, and StringConverters.
* **Quality Control**: Splunk, SonarQube, JIRA.
* **Cloud**: Microsoft Azure, AWS, GCP, Docker, Kubernetes.
* **Big data Technologies**: HDFS, Hive, YARN, Avro, Kerberos, Airflow.

**WORK EXPERIENCE**

**Sr.Software Developer/ Kafka Admin, Lowe’s, Dallas, TX (Contract)** Sep 2023 – Current

Team: Price Engine

Project - Created a comprehensive Limits API Web Application to aggregate price limits for 1800 stores at National, Store, and Default levels, spanning current and future dates.

* Enhance application performance by conducting systems analysis and proceeding with **parallel processing** or **horizontal scaling.**
* Coordinating **re-architecture** of price engine by modularizing a complex application into efficient distributed microservices.
* Engaged in developing, maintaining and deploying more than 10 services and 5 batch applications of Price Engine (Gating of Prices and Conflict Resolution)
* Drove the development and deployment of 7+ microservices constructed with **Java 8, Spring Boot, Spring WebFlux, Spring Kafka, and Spring Batch** on GKE (Google's Kubernetes Engine)
* Designed and developed the application using Angular framework along with HTML5, CSS3, Type Script, Java Script, Bootstrap, Node.js, NPM.
* Imported customer data based on on-load and application requirements by storing them in cache memory (**Gemfire**).
* Created **React components** with Lowe’s standard and security guidelines (DDL guidelines) for consumption by other scrum teams to start developing their application. Built **React** Services to interact with **RESTful** services at backend.
* Implemented Apache **Kafka clusters and Confluent Kafka** open source in multiple environments, optimizing system performance and scalability; enhanced real-time data processing capabilities by 50% and reduced latency by 25%.
* Responsible for Kafka tuning, capacity planning, disaster recovery, replication, and troubleshooting.
* Implemented Kafka Streams application using **KStreams, KTable** to process the events in real time.
* Worked on setting up Kafka cluster setup on the QA and Production environments.
* Deployed and fine-tuned Kafka brokers, Zookeepers 5.x, Kafka Connect, Schema Registry, KSQL, Rest Proxy, and Kafka **Control Center.**
* Upgraded Confluent versions in different environments through Ansible scripts and migrated on-premises cluster to

**OpenShift Kubernetes**.

* Deployed Confluent Kafka with the Confluent Terraform Provider and managed Confluent Environments, Kafka

Clusters, Kafka Topics, Kafka ACLs, Service Accounts.

* Implemented Kafka producer and consumer applications on Kafka cluster setup with help of **Zookeeper**.
* Managing Amazon Web Services (AWS) infrastructure with automation and configuration management tools such as **Chef, Ansible, Puppet**.
* Built **automation** using continues integration by creating jobs, pipelines in Jenkins with different Jenkins plugins to integrate with different services.
* Developed and implemented **Hive scripts** for transformations such as evaluation, filtering and aggregation.
* Developed Spark Streaming applications with Kafka for real time data processing using Scala and Spark.
* Supported porting stream processing solutions using Amazon Kinesis.
* Set up and managing kinesis data streams and integrating with AWS services for real-time data analytics.
* Converted **Hive/SQL queries** into Spark transformations using Spark SQL, **Spark Data Frames**
* Reduced the latency of **Spark Jobs** by tweaking the spark configurations and follow the performance and
* optimization techniques.
* Created automation scripts to onboard data applications on CI/CD pipeline using Jenkins and Terraform

**Software Developer/ Kafka Admin**, **Morgan Stanley, New York City, NY (Contract)** March 2021 – Sep 2023

Team: Restricted Securities

Project - Engineered seamless transition of Restricted securities from legacy to modernized infrastructure, ensuring timely distribution to high network client accounts.

* Composed **SQL queries** for more than 5 **microservices** and 2 batch programs while working with GCP Spanner as Database
* Extensively used Angular Framework to design and develop the Single Page Application (SPA).
* Handled migration from JDK 6 to JDK 8 with Spring Boot based microservice architecture and then containerizing (Docker) and deploying them onto WCNP (**PaaS**)(**Kubernetes**)
* Coordinating re-architecture of price engine by modularizing a complex application into efficient distributed microservices.
* Configured dynamic tests to **optimize data pipelines**, ensuring accurate and reliable insights for brand partners, resulting in a 25% decrease in data inconsistencies.
* Implemented a robust **authentication and authorization system**, ensuring secure access to sensitive data and protecting user privacy.
* Managed **token authentication** using session-based APIs, ensuring secure and seamless access to data, enhancing platform reliability and user experience.
* Designed UI web pages and front-end application using web technologies like **HTML5, CSS3, XML, JSON, JavaScript, jQuery, Bootstrap, Angular 10+.**
* Involved in producing the working connectors for the **RESTful API’s** using spring for **JSON** requests and responses.
* Developed and designed single page application and implemented **Angular Routing UI** as a distribute central configuration platform.
* Optimized **Spring Batch** Applications, reducing processing time from 5 hours to 5 minutes for handling Database Update and **Kafka** Publish of more than 6 million prices.
* Used **Elasticsearch** for real-time, distributed search and analytics. Set up Elasticsearch clusters, defining indexing, strategies, and integrating with **Logstash and Kibana**.
* Defined and validated XML documents using **XML Schema**. Proficient in designing complex XML Schemas for

various applications.

* Deployed and managed microservices on **Kubernetes.** Set up Kubernetes clusters, **pod management**, and

ensuring high availability and scalability.

* Led successful migration of projects from Bitbucket to GitLab, contributing to 30% enhancement in CI/CD

processes and collaboration.

* Built and maintained various Kafka distributions (**Confluent, Cloudera, Apache**), ensuring efficient message brokering and real-time data streaming.
* Actively deployed, managed, and monitored **Kafka connectors, KSQL, and Kafka Rest Proxy**, bolstering data integration and stream processing.
* Successfully Generated consumer group lags from Kafka using their **API Kafka**- Used for building real-time data pipelines between clusters.
* Used advanced Python programming skills, with experience in scripting, data analysis, and automating tasks.

**Software Developer, Boston Consulting Group, Seattle, WA (Contract)** Jan 2019 – Mar 2021

Team: Polaris

Project - Nextgen SAAS application to leverage its cloud and storage flexible ability to help consultants with client’s business problems and limitations in managing their case studies with machine learning.

* Designed and implemented **RESTful Node.js APIs** and **GraphQL** endpoints for seamless data exchange between the client and server, improving application performance and data processing efficiency.
* Led a team of developers in building complex web applications using **React.js, Redux** resulting in a 30% reduction in development time and enhanced application performance.
* Architected reusable and scalable UI components using Material-UI and styled-components, leading to a more efficient development process.
* Used **React** libraries like **react-bootstrap, react-axios, react-redux** to make the website make less call to server.
* Implemented pagination by using **pagination** module. Performed form validations using **reactive forms** from React framework.
* Used **Custom Pipes** as filter to provide better search and sort experience. Introduced GraphQL and to improve data fetching efficiency and enhance overall user experience.
* Implemented server-side rendering (**SSR**) with **Next.js**, improving initial page load times and **SEO** rankings for the applications.
* Conducted regular code reviews, ensuring adherence to best practices, and maintaining code quality throughout the development lifecycle.
* Utilized AWS services for server deployment and monitoring, optimizing application performance and scalability.
* Proven ability to lead and mentor teams, ensuring project success and fostering a collaborative work environment.

**Software Developer, Schnell’s Global Corporation, Bengaluru, India (Full-Time)** June 2016 – Dec 2018

Team: Spex

Project - In-order to track the Credit Card Transaction from the Customer purchases and to keep the record of the Customer Credit behavior in-order to secure the transactions of customer and one-time login system.

* Developed a customer-facing platform using **React.js and Redux**, resulting in a 25% increase in conversion rates and a 20% rise in customer satisfaction.
* Introduced Redux Toolkit and Immer.js for state management, reducing boilerplate code and improving code maintainability.
* Regular build and deployed project using **RLM, maven**. Used International Content Management System (ICMS) for maintaining content.
* Did POC work for various features like **SiteCatalyst, Doc uploading, integrating slack**, Mock server for local development.
* Implemented accessibility features, resulting in compliance with WCAG standards and improved usability for users with disabilities.
* Collaborated with UX designers to create interactive and user-friendly interfaces, translating wireframes and mockups into high-quality UI components.
* Updated Wiki page which acts as developer guide for future developers using the Scrum components. Participated in sprint planning meeting and prioritizing the components to deliver.

**Education**

BNM Institute of Technology: Bachelor of Engineering in Computer Science and Engineering

Certified as a Confluent Kafka developer.

Certified as an AWS Cloud Practitioner.