RANVIRSINH CHAVDA

Senior Software Engineer

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Summary

▶ Software Engineer with 12 years of experience in all the phases of SDLC with focus on implementation of large scale mission critical platforms leveraging realtime streaming and BigData applications on AWS Cloud.
▶ Expertise using AWS technologies like EC2, S3, EMR, VPC, Cloud Formation, IaC(sceptre), codedeploy to deploy realtime streaming and batch application on kafka and spark
▶ Implemented large scale(~1B msg/day) realtime processing pipeline using kafka, Spark, Hadoop Yarn and store data in Apache Avro and Parquet format on S3
▶ Experience developing multiple realtime streaming pipeline application in payment and trade processing domains with technologies like Spring Boot, Apache Camel, Hibernate, REST API, EmberJS
▶ Providing production release and On Call rotation support.

Languages, Tools & Technologies

AWS(S3, EC2, EMR)	Spark	Java
Airflow	Kafka	Python
GCP(Dataproc, Composer)	Hadoop Yarn	Bash
Datadog	Storm	Parquet, Avro
Oracle, Postgres	Zookeeper	Javascript
Sceptre, Terraform(IaC)	Apache Gremlin	Design Patterns

Jenkins CI/CD	Splunk	Maven/Gradle
PL/SQL	Dynatrace	Ansible
Hibernate	Data Structure and Algorithms	Git/SVN

Experience

SiriusXM/Pandora

Mar-2022 - Present

Lawrenceville, NJ
Senior Software Engineer

Feature and Content Personalization

▶ Building the Next Generation Feature and Content personalization system for Pandora App content and Listener facing features
▶ Implemented Streaming jobs using EIP patterns using Apache Camel framework for processing content rights.
▶ Implemented REST service endpoints using SpringBoot framework with Postgres and Redis as Datastores
▶ Implemented Sqoop data export jobs to export data from Postgres to Google Cloud using Composer (Airflow) scheduler framework
▶ Upgraded legacy content rights processing system for ~60% reduction in duplicate processing and prioritization of popular tracks.
▶ Lead the Infrastructure migration project to decommission the outdated servers and added redundancy to services.
▶ Implemented event mechanism to inject message in running application to perform different tasks without restarting streaming application.
Technologies: Java, Kafka, Spring Boot, Apache Camel, Grafana, Prometheus, Python, PostgreSQL

JPMorgan Chase & Co

Apr-2016 - Feb-2022

Jersey City, NJ
Senior Software Engineer

Tradevault

▶ Building the Next Generation Regulatory Reporting Platform on Public Cloud to process ~1 billion daily messages in near-realtime for reports generation
▶ Implemented stateful process for linking trades using Apache Gremlin to create graph in Memory and enriched properties using relation in realtime which was happening as PL/SQL code at end of day
▶ Saved effort of manual start of failed/killed process for SRE team using Hadoop Yarn in java based streaming application to achieve resiliency
▶ Improved batch job time by 10% with kafka messages from previous day Kafka offsets for geographic regions
▶ Implemented backfill job to handle late messages in the realtime processing pipeline and add/update to existing parquet files.
▶ Implemented event mechanism to inject message in running application to perform different tasks without restarting streaming application.
▶ Use of Yarn resource manager to run 400 realtime linking engines for trade data through out day
▶ On-boarded ~40 components to firmwide CI/CD platform with different deployment patterns(AWS/Onprem/FRS) using template based approach this led to centralized control of policy/standards enforcement
Technologies: Java, AWS(S3, EC2, EMR, Codedeploy) Spark, Kafka, Hadoop Yarn, Datadog, Python, Bash, sceptre, Terraform, Kafka MirrorMaker, Avro, Parquet, Oracle Exadata, Ansible

Integrated Transaction Center

▶ Rewriting Next generation ACH payment processing application using Apache Storm & Kafka
▶ Implementing storm topology to process payment instructions in asynchronous in backend
▶ Implemented Value date processing logic as a service that can be plugged into any payment processing application
▶ Led team of 4 developers to deliver on sprints features in agile environment
▶ Implemented generic configurable solution to build the addenda String from payment instruction for all US Tax agencies to remove dependency from vendor application
▶ Reduced new country/payment type onboarding time from Weeks to Days by implementing payment origination screen population framework that can be configured by Business users as per the specification with much of coding change required
▶ Merged multiple payment applications under single umbrella to descope outdated payment application to give standard UI across all the payment and competitive advantage to sales team in new markets
Technologies: Java, EmberJS, Apache Kafka, Apache Storm, Spring framework, Lombok, Oracle, ElasticSearch, Splunk, Spring Boot

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TCSL Tata Consultancy Services Ltd.
Sep-2010 - Apr-2016
Information Technology Analyst

▶ Designed and developed manual process automation using Java, JSP and Oracle for various govt agencies for Finance and Unemployment Tax domain.
▶ Implemented jms based services to integrate iPad app to send/receive data to conduct audit on employers on field in offline mode to save hours of manual notes keeping.
▶ Led UAT test phase(~1 Month), addressed client queries and conducted training sessions for users of system.
▶ Designed and developed batch processes to generate correspondences using HP Exstream.
Technologies: Java, JSP, Spring MVC, Hibernate, Javascript, Oracle, Tomcat

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Awards & Recognitions

▶ Star of the Month award
▶ Quarterly Excellence Award to team

Education

Ganpat University, Gujarat, India
Bachelor of Technology (IT) — Jun 2010
