Karan Full Stack Developer

[Developersingh871994@gmail.com](mailto:Developersingh871994@gmail.com)

***SUMMARY:***

* Software Professional with 7 years of IT experience in designing, developing and delivering complex multi-tiered enterprise applications for web-based and clients-server domains using Java 7, 8/J2EE/Unix/SQL/ MySQL
* Experienced using different version control systems like GitHub, S3 and Bitbucket. Deploying applications using Lambda, EC2 and Docker containers and utilizing CI/CD processes. Experience in Implementing API in Java Multi-Threaded Environment.
* Extensive knowledge of XML-based standards and protocols such as WSDL and SOAP , Service Oriented Architecture SOA development of XSD schemas and implementing both SOAP and REST web services.
* Extensive experience in using various UML, Rational Rose, design patterns and industry best practices such as MVC Model-View-Controller , Singleton, Facade, Factory and DAO, DTO, singleton.
* Experienced in generating logging by Log4j to identify the errors in the production test environment and experienced in Ant, Maven and Gradle tools.
* Experience applying the latest development approaches including MVC framework in the browser, event-driven applications using AJAX, Object Oriented (OO) JavaScript, JSON and XML. Experience working with JavaScript MVC frameworks Angular JS.
* Used angular-cli tool to configuring the angular project and building it for development of Angular application
* Used Angular JS as the development framework to build a single-page application.
* Created Web Applications with real-time, two-way connection, where both Client and Server can initiate communication by using Angular.js.
* Worked with modules like MongoDB and mongoose for database persistence using Node.js to interact with mongodb.
* Used React JS to build a SPA that is used as a message center for users to communicate with customer support.
* Proficient in RDBMS concepts and experience in working with Oracle 9i/10g/11g, DB2 and MY SQL PL/SQL, SQL Plus, Database triggers, Procedures, Functions.
* Closely worked with the Release Management Team in doing builds and deploying code into various environments like DEV/QA/SIT/UAT/Prod.
* Have excellent analytical, problem solving, communication and interpersonal skills, with ability to interact with individuals at all levels and can work as a part of a team as well as independently.
* Knowledge in application of cloud providers, Amazon AWS Ec2/s3/AMI, Cassandra, MongoDB, Microservices and Cloud sigma. Used JBoss Fuse for integration of the web services and Apache Tomcat.
* Have knowledge on partitioning Kafka messages and setting up the replication factors in Kafka Cluster and Profound experience in creating real time data streaming solutions using Apache Spark /Spark Streaming, Kafka and Flume.
* Experienced in a fast-paced Safe Agile Development Environment including Test-Driven Development (TDD) and Scrum.

Experience in making the Devops pipelines using Open shift and Kubernetes for the Microservices Architecture.

* Knowledge of deploying application updates to AWS EC2, Docker, Maven, Jenkins, and monitored the load balancing of different instances and used AWS IAM for access management.
* Software development experience using expertise with Java 7,8, J2EE, JSP, JDBC, Servlets, Java Beans, EJBs (Session beans, Entity Beans and JMS), JBoss, JavaScript, Angular 7, jQuery, CSS, Ajax, Jason, XML, DTD, XSD, JAXP, JAXB, Azure, Web Services, Struts, Spring, Microservices, Hibernate and Oracle PL/SQL.
* Exposure to CI/CD tools - Jenkins for Continuous Integration, Ansible for continuous deployment and Familiar with other Continuous Integration tools such as Bamboo & Teamcity.
* Expertise in writing JUnit test cases using Junit Frameworks like Mockito and JMock. Used microservices architecture, with Spring Boot-based services interacting through a combination of REST and Apache Kafka message broker.
* Hands-on experience in writing lightweight Node.js express servers, and using technologies like Ajax, JavaScript/jQuery, JSON to make connections between servers and databases like MongoDB and MySQL.
* Used PL/SQL and SQL Loader to create ETL packages for flat file loading and error capturing into log tables. Oracle PL/SQL developer responsible for writing ETL scripts in AGILE SCRUM /SAFE Environment.
* Experience implementing REST and SOAP web services using technologies such as JSON, XML, JAXB, Jackson and Jersey.

Configured Spark Streaming to receive real time data from the Apache Kafka and store the stream data to HDFS using Scala.

* Used Node Package Manager (NPM) to manage or install the Node - JS modules like Web pack, Grunt, Gulp, Browserify, Express, underscore.js, require.js, crypto.js, mongoose, and mongo.js.
* Experience in Web Services Technologies like SOAP with WSDL and RESTful with JAX\_RS, Jersey, Spring, NOSQL, Apache

CXF and implemented SOA architecture with web services. Developing customer facing software for managing advertisements within games using backbone.js, JavaScript / jQuery, Handlebars.js, Require.js, high charts, HTML, and SASS.

* Experience in designing websites using J2EE technologies and handling design/implementation using Rational Application

Developer Eclipse/Intellij

* Experience with SVN, Team Foundation Server, Bitbucket, Git and GitHub for version control and Quality Center, Jira for bug tracking.
* Hands-on experience on fetching the live stream data and injecting data into Hbase table using Spark Streaming and Apache Kafka.
* Extensively worked in different IDE’s like Eclipse, Visual Studio Code, JIRA and Postman and Unit testing frameworks like Log4j, JUnit, Jasmine, Karma, Selenium.
* Expertise in developing Micro services using Spring Boot and NodeJS to build more physically separated modular applications which will improve scalability, Availability, Agility of application.
* Good working knowledge of Ant/Maven for project build/test/deployment, Log4j for error logging and Debugging, Junit For unit and integration testing and XMLSpy for XML validation.
* Proficient in Test Automation using UFT and Selenium tools, web Drivers, MySQL, NOSQL, Junit, Jacoco and TestNG. Expertise in using J2EE application servers such as IBM WebSphere, JBoss and web servers like Apache Tomcat.
* Experience in implementing web-based projects using Web/Application Servers such as Apache Tomcat 6.0.18/7.0.42 and JBoss Application Server 4.2 Used Apache Tomcat that implements the Java Platform, Enterprise Edition (Java EE).
* Expertise in using J2EE Frameworks like JDBC, Jakarta Struts, JMS, Spring JDBC, Spring Batch, Apache Kafka, Zookeeper,

Hibernate, WEB SERVICES SOAP and REST.

***Work Experience:***

***Full Stack Developer***

## Google- Menlo Park, CA March 2018 to Present

***RESPONSIBILITIES:***

* Working on projects with Waterfall and Agile methodologies such as Test-Driven Development (TDD) & BDD and SCRUM. Used Apache Kafka for handling log messages that are handled by multiple systems. Working with Front-end JavaScript frameworks like Angular 7, Nodejs. And with the creation of RESTful Web service.
* Written Spring Core and Spring MVC files to associate DAO with Business Layer
* Used Maven to build, run and create JARs and WAR files
* Used Log4J to capture the log that includes runtime exceptions.
* Developed JUnit test cases for all the developed modules.
* Involved in the complete life cycle of the project from the requirements to the production and also involved in UAT.
* Setting up daily Status meetings with the team and communicating status to Project Manager.
* Worked with Business team during UAT to review the requirements for any new functionality or enhancements

□ Worked with server admin and deployed the application on to the production and Stage Servers.

* Involved in design & development of SQL queries, MySQL, Multithreading, Restful Web, Functions and Stored procedures for performing database operations. Work on Hadoop Ecosystem (Pig, Hive, Impala and Spark, Scala), Java and J2EE.
* Developed Spark Applications by using Scala, Java and Implemented Apache Spark data processing project to handle data from various RDBMS and Streaming sources.
* Developed and maintained features in the Java backend of applications using continuous integrated testing boxes under Linux

command line. Deployed build to SIT (System Integration Testing) Server using a customized JBoss menu in Linux and Unix.

* Application deployment and debugging is performed in the Linux environment and used Putty/ WinSCP to access the Server Logs and worked on the code debugging using memes cape debugging tool. Optimized Microservices using Nodejs and ES6 as interfaces to Cassandra NoSQL database.
* Using open source technologies including React, Node JS, Spring, Angular, jQuery, Elastic Search, NOSQL, MongoDB, Bootstrap, JUnit, Eclipse etc.
* Implemented REST Microservices using spring boot & Generated Metrics with method level granularity and Persistence using

Spring AOP and Spring Actuator.

* Worked on branching, tagging and maintaining the version across the environments using SCM tools like GIT, Subversion (SVN) on Linux and windows platforms.
* Prepared ETL standards, Naming conventions and wrote ETL flow documentation for Stage, ODS and Mart and used Change Data Capture (CDC) to simplify ETL in data warehouse applications.
* Involved in batch processing using Spring Batch framework to validate feed files and load data into corresponding EBX5 tables and Used Maven for dependency management and building the project.
* Using Google Cloud Functions to integrate applications and run backend processes according to schedules without provisioning/managing servers.
* 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.
* Working with Pivotal Cloud Foundry and OpenShift/Kubernetes architecture and design, troubleshooting issues with platform components (PCF), and developing global/multi-regional deployment models and patterns for large scale developments/deployments on Cloud Foundry and OpenShift/Kubernetes
* Involved in CI/CD process using GIT, Nexus, Jenkins job creation, Maven build, Create Docker image and deployment in google cloud environment & Creating and Managing Maven scripts to build and deploy the application. Developing Java API for ETL transformations: using Informatica, developed self-made ETL Java programs.
* Migration of Web Sphere application server to Tomcat application and used Eclipse IDE and deployed the application on TOMCAT server.
* Created Node.js middleware application server to encapsulate modern JS widget framework Worked with JSON objects and

JavaScript and JQuery intensively to create interactive web pages. Documentation of ETL packages such as SSIS and SSAS design and process. Using the PubSub messaging pattern.

* Used Git as source control management giving a huge speed advantage on centralized systems that have to communicate with a server & Wrote Kafka producer to stream the data from external rest APIs to Kafka topics.
* Implemented web page layout using struts tiles libraries and performed struts validations using Struts validation framework. And Collaborated with the team using GIT, GitHub, Source Tree version control platform.
* Custom frontend development with Node JS GWT, HTML, CSS, SQL, JavaScript and wrote Java code to interact with third party

JSON services. Designed and developed several web application modules using Servlets, JSP and Hibernate.

* Designed and Developed UI i.e. created JSPs/ JSTL pages, JavaScript /CSS/html and core java developments in Eclipse IDE. configuring the Git repository and maintaining the version control using Git.
* Developed integration solutions and prepared programming code. Solid experience in Java Database Connectivity; JDBC API,

Entity Beans, DAO Pattern, and configuring data sources on Web Sphere and Web Logic App Server.

* Managed the entire ETL process involving the access, manipulation, analysis, interpretation and presentation of information from both internal and secondary data sources to customers.
* Created tile definitions, Struts-config files, validation files and resource bundles for all modules using Struts framework. Build

REST web service by building Nodejs Server in the back-end to handle requests sent from the front-end jQuery Ajax calls.

* Worked in using ReactJS components, Forms, Events, Keys, Router, JPA, Animations and Flux concept. Development of software using core java 7, 8with integration of Apache Storm, Apache Kafka. Involved in coding for the presentation layer using Apache Struts, XML and JavaScript.
* Experience in Service Oriented Architecture (SOA), Web Services design development and deployment using WSDL, SQL, REST, UDDI, JAXP, JAXB, SAX, DOM, XSLT, Apache AXIS, SOAP Web Services.
* Well experience in Design and Development of database systems using RDBMS concepts including Oracle, PostgreSQL, MySQL

and experience in writing SQL queries, PL/SQL, T-SQL, Stored procedures, prepared statements and triggers. Experience in working with No-SQL databases like MongoDB, Cassandra, and HBase.

* Design and development experience in JEE technologies involving Core Java 6/7/8, JSP, Spring MVC, Spring Boot, TDD, BDD, OOP Programs. Working on client scripting language and server-side scripting languages like JavaScript.

# Sr. Software Engineer

## T-Mobile- Bellevue, WA Nov 2016 to March 2018

* Managed large datasets using Pandas API ecosystem to analyze the different segments of customers based on Location. Designed and developed Common Frameworks within the organization using Spring Batch, Apache Kafka and Bean IO Frameworks.
* Involved in coding with Core Java concepts like Collections, Exception Handling, Multithreading, Java I/O, and Generics to implement some business logic.
* Coordinate with all the teams for functional requirements and ensure compliance to all architecture standards.
* All the functionality is implemented using Spring Boot and Hibernate ORM. Implemented Java EE components using Spring MVC, Spring IOC, Spring transactions and Spring security modules.
* Configured and deployed the application using Tomcat and Web Sphere.
* Built Java applications using Maven and deployed JAVA/J2EE applications through Application servers.
* Worked on creating the Docker containers and Docker consoles for managing the application life cycle. Setup Docker on Linux and configure Jenkins to run under Docker host.
* Developed algorithms to analyze gene expression data using Bayesian statistical techniques and ran the algorithm on Linux debugging server and Implemented code porting from Solaris system to Linux system.
* Created common reusable objects for the ETL team and overlooked coding standards and reviewed high-level design specification, ETL coding and mapping standards and Developed native Scala/Java library using Jsch to remotely execute Auto Logs Perl Scripts.
* Designed and developed asynchronous RESTful Microservices using Spring boot, Couch base and RXJava that are consumed by other microservices with an average response time of 30 milliseconds.
* Involved in writing SQL Queries, Stored Procedures. Involved in Unit testing using JUNIT with Mockito and integration testing.
* Implemented Spark using Scala and Spark SQL for faster testing and processing of data and implemented Spark using Scala and utilizing Data frames and Spark SQL API for faster processing of data.
* Used Gulp as task runner, SASS/SCSS preprocessor, GIT and GitHub for source code management and tracking. Used Visual

Source Safe for Version Control. Built Continuous Integration environment Jenkins, TFS, SVN and Continuous delivery environment.

* Created a client website running on a Node.js, using the Express framework, Jade, AngularJS and Backbone.js for front end MVC/templating.
* Worked on AWS SDK gem, including utilities that initialize local application environments mirroring Beanstalk environments and implemented AWS solutions using DynamoDB, EBS, Elastic Load Balancer, Auto scaling groups.
* Building/Maintaining Docker container clusters managed by Kubernetes Linux, Bash, GIT, Docker, on GCP (Google Cloud Platform). Utilized Kubernetes and Docker for the runtime environment of the CI/CD system to build, test deploy.
* Closely worked with the Kafka Admin team to set up Kafka cluster setup on the QA and Production environments. And Implemented Spring boot microservices to process the messages into the Kafka cluster setup.
* Developed Microservices based on Restful web service using Akka Actors and Akka-Http framework in Scala which handles

high concurrency and high volume of traffic.

* Utilized Jenkins, Git for deployment on test servers and to move towards CI/CD. Designed and deployed a full SDLC of Hadoop cluster based on the client's business needs. Created Lambda functions to automate the AWS environments
* Used AWS Cloud Watch for performing Monitoring, customized metrics and file logging and successfully completed the task in

using AWS Lambda to manage the servers and run the code in AWS.

* Support an Agile CI/CD Environment with Devops where we make the Atlassian tools (Jira and Bitbucket) and provide layer 3 support on these tools if there are any issues. Responsible for ingesting large volumes of data into Hadoop Data Lake Pipeline on a daily basis.
* Used Amazon Elastic Beanstalk with Amazon EC2 instance to deploy projects into AWS. Configured continuous integration (CI) with Jenkins on AWS EC2. Created continuous integration builds using Maven and Harvest control.
* Developed a Java based ETL tool which extracts data from sources like IBM Cognos (xml) & My SQL and dumps data in the

target tables in My SQL database.

* Implemented or exposing the Micro services to base on RESTful API utilizing Spring Boot with Spring MVC and Apache Kafka.

Developed Rest API with mongo DB for front end team.

* Analyzed the Node.JS server structure in the legacy project, then mimicked the REST service by using Java JAX-WS API, and did the corresponding configurations.
* Developed end to end data processing pipelines that begin with receiving data using distributed messaging systems Kafka through

persistence of data into HBase.

* Involved in configuring the Git repository and maintaining the version control using Git and Maintain the code base by frequent updates to revision using GIT version control system.
* Used struts tag libraries like html, bean, and logic in the JSP pages. Used html form tag for auto-populating of related Action Form as specified in the action mapping.
* Configured Jenkins as a Continuous Integration server with GitHub and Maven and Generated Test Report using ReportNG and Extent report in Maven Project.
* Working closely with Web Administrators to set up an automated deployment for SharePoint applications using SVN and Git Tools. Developed and tested extraction, transformation, job and load (ETL) processes
* Implemented usage of Amazon EMR for processing Big Data across Hadoop Cluster of virtual servers on Amazon Elastic Compute Cloud (EC2) and Amazon Simple Storage Service (S3). Worked on Apache Flume for collecting and aggregating huge amounts of log data and stored it on HDFS for doing further analysis.
* Designed, Refactored and maintained the SERVICE GUI system of the Kiosk. Experience with web app development with

Nodejs, ExpressJS, HTML, CSS and JavaScript.

* Worked with IDE as Eclipse Indigo and deployed into Apache Tomcat Web Server & used Maven build tool to achieve more functionality for the build process.
* Developing Spring Boot based Micro Services using the annotation & implementing architecture patterns, Used Spring Rest/Json

to expose Microservices APIs.

# Full Stack Developer

## Accenture -Remote from NY June 2014 To Nov 2016

***Responsibilities:***

* Worked in object-oriented analysis, design and application development using JAVA 6, J2EE, XML, JSON, RAML, JMS, BRMS, NoSQL technologies implemented code to create AngularJS Controller, which isolate scopes perform operations.
* Designed and developed Application using Spring MVC and Spring Templates and developed Web services using Spring with REST API and involved in Designing of application components using Java Collections and provided concurrent database access using multithreading.
* Did the Setup of Jenkins server and build jobs to provide continuous automated during the day and periodic scheduled builds overnight to support development needs using Jenkins, JUnit and Maven
* Worked on UI for Layered Security and S&L modules and hands on experience with Spark streaming to receive real time data using Kafka.
* Improved the web application using Spring and worked on multiple operating systems like UNIX, Linux and Windows and Created, cloning Linux Virtual Machines, templates using VMware Virtual Clients.
* Developed MicroServices, and creating API's using Java Spring Boot framework using Maven as a build tool and Cassandra as an enterprise level database
* Used Spring Boot framework for building cloud MicroServices and to develop Spring-based applications radically faster with

very less configuration.

* Developed the responsive UI web pages using XHTML, jQuery, HTML5, CSS3, Angular JS 2, JavaScript, node JS and has worked with AngularJS filters in expressions and directives to filter data in the UI.
* Worked on integration of AWS Cloud configuration management and Centralized logging using Spring Boot and Java

application. Used Kubernetes to orchestrate the deployment, scaling and management of Docker Containers.

* Redesigned the current ETL project architecture to make it more scalable by using Apache Camel and Spring Beans.

Configuration Management - delivery of code via VSS Visual Source Safe

* Used Eclipse IDE for application development and deployment. Used Periscope Debuggers and Nohau Emulators for distributed system-interface debugging
* Developed RESTful services using Jersey, JAX-RS and Resettle to call third party vendors and responsible for developing the sequential and conditional batch jobs using the Spring batch framework.
* Developed the automation environment for build, deployment, and configuration of Portlets onto the IBM WebSphere portal server using ANT scripts, XML Access scripts and JACL scripts.
* Designed and developed various modules of the application with J2EE design architecture, Spring MVC architecture using IOC, AOP concepts
* Created EC2, RDS instances and deployed applications on AWS Elastic Beanstalk and Developed Java API to connect with AWS S3 Services for storing and retrieving data stored in the S3 buckets.
* Involved in writing SQL & PL SQL - Stored procedures, functions, sequences, triggers, cursors, object types.

TECHNICAL SKILLS:

Languages: Java, Python, SQL, PL/SQL, UML, Angular, Node, MongoDB.

Framework: Spring, Django, SpringBoot, Hibernate, Grails, JSF, Spring Dependency Injection, Spring MVC, Spring Core, Spring Context, Spring AOP, Spring DAO, Spring IOC, Spring JDBC, Spring with Hibernate , Hibernate, DWR, Log4j.

Environment: Java 1.6, Java Beans, J2EE, SOAP, Spring 3.0, CXF, Ajax, Jquery, JSP, XSD, XMLBean, WebSphere 6.0, DB2, JUnit, Log4J, FileZilla, Spring Framework security using LDAP, SharePoint, RAD 8.0 8.5,DB2, Mainframe Platform, RESTful Web Services, SOAP Web Services, Java APIs, PyCharm, Pytest, Django.

Software Development Lifecycle: Agile Methodology, Scrum framework, waterfall

HTML, CSS, JavaScript, Spring, bootstrap, MySQL, Nodejs, YAML, JSON, Typescript, DJANGO, Amazon Lambda programming, AWS cloud, React, Kafka.

Cloud: Microsoft Azure, Amazon Web Services, OpenStack.

DevOps: Tools Chef, Ansible, Puppet, Jenkins, Docker, ELK, Ant, Maven,Gradle.

Tools & Services: GitHub, Bitbucket, REST Services, Docker, OpenStack, Kubernetes, DevExpress tools, Crystal Reports, UML, JetBrains tools, JSON, Swagger, Shell scripting, CI/CD, SOLR

Version Control Tools: Git, GitHub, SVN, VSS

Web Technologies: J2EE, Servlets, JDBC, XML, JSON, JSP, Servlets, JNDI, JDBC, JSTL, JMS, JPA, EJB, Web Services, SOAP, WSDL, JAX-RS, JAX-WS, HTML, DHTML, Java Beans, JavaScript, AJAX.

Debugging Tools: MS Visual Studio debugging tools, Windows Debugger (Windbg) and GNU Linux/Unix debugger (GDB)

Design Patterns: MVC, Singleton, Business Delegate, Service Locator, Session Facade, DTO, DAO, Factory Pattern

EDUCATION:

Bachelors in Engineering, Computer Science and Electronics. Newyork Institute of technology( NYIT ), Newyork, NYC.