

# Shilpa Vishwakarma

Full-Stack Java developer

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## Professional Summary

- 5.5+ years of solid experience in Software Development including Analysis, Design and Development of enterprise web-based and client-server applications using Java and J2EE technologies.
- Expertise in design and development of various web-based enterprise applications using J2EE technologies like JSP, Servlets, JDBC, EJB, JMS, JSF, RMI, XML and Web Services.
- Extensive programming experience in developing Microservices using Spring Boot with Java 8, 7.
- Expertise in different spring framework modules like Spring JDBC, Spring MVC, Spring Security, Spring Data JPA.
- Used advanced Java 13 features like Lambda Expressions for Array operations, Streams, Method reference, and Collections.
- Worked on highly advanced and user interface design and development using Angular 5/6/7, NodeJS, React JS HTML5 and CSS3.
- Expertise in Core Java concepts such as Multithreading, Exception Handling, Collection APIs.
- Expertise in Object Oriented Analysis (OOA), Object Oriented Design (OOD), and SDLC Development.
- Strong command on software development methodologies like Agile.
- Used Microservices to communicate using synchronous protocols HTTP and REST for implementing SOAP
- Expertise with frameworks like Spring Boot, Spring MVC and Hibernate, Mockito, Junit.
- Expertise in XML and related technologies like XSL, XSLT, Xpath and parsers like JAXP (SAX, DOM) and JAXB.
- Experience in developing of applications using J2EE Design Patterns like Singleton, Session Facade, Factory Pattern and MVC.
- Experience in developing web pages using JSP, HTML, CSS, Java Script.
- Extensive knowledge on large-scale, complex system analysis, and design by using UML, SOA.
- Expertise in using IDE's including: IntelliJ IDEA and Eclipse.
- Good Understanding knowledge on the Java Script frame works like Angular.
- Extensive working experience on databases such as MySQL, Oracle, and SQL Server.
- Very good experience in using Jira and Confluence
- Good experience with Cloud Deployment using Spring PCF with Azure and AWS.
- Committed to excellence, self-motivator, fast-learner, team-player, and a prudent developer with strong problem-solving skills and communication skills.
- Experienced in web/application servers like Apache Tomcat, WebSphere, JBoss and Weblogic.
- Set up, configured, and maintained multiple web/application servers like IBM Web Sphere, Apache Tomcat and BEA Web logic.
- Expertise on Peer Code Review, Unit testing and Integration testing.
- Experience in Managing build files using ANT and logging using Log4j.
- Strong TDD (test driven development) and continuous integration experience using JUnit.
- Extensive experience in Version control systems using TFS, CVS and SVN. Possess excellent communication skills along with dedication, and commitment for work.

## Technical Skills

### Core Expertise

Servlets, JSP, JSF, JDBC, JNDI, Java Mail, JMS, WEB 2.0, Web Services, DOM, EJB, SAX, Digester, JSON, Angular Js(&9x), Angular5.0, Angular 7, Ajax and JSTL.

Languages	Java, HTML, DHTML,HTML5, XML, XSLT, UML, EL, C++ and C.
Frame Works	Struts 1.2/2.0, Spring 2.0/2.5, SpringBoot, Hibernate 3.1, DOJO, WATIRand JUnit.
Web/Application Servers	BEA Web Logic 8.x, IBM Web Sphere 6.x/7.x, JBoss 4.x/5.X and Apache Tomcat 4.X/5.X.
Scripting Languages	Perl,Unix Shell scripts, Java Script, CSS, Ant, Ruby Scripts and Action Script 3.0.
Databases	Oracle 7.2/9i/10g, DB2 8.1, MySQL,MS Access and SQL server, Cassandra
Development Tools	IBM WSAD 5.0, IBM RAD 6.0/7.0, Eclipse 3.x and MyEclipse 6.x
Design/ Version control	Rational Clear Case, CVS and Tortoise SVN and PVCS.
Operating Systems	Windows 95/98/2000/XP/NT, MS-DOS, Unix, Solaris 9 and Linux
Bug tracking	Rational Clear Quest, Bugzilla and Jira
Tools & Utilities	Rational Rose 2000, Adobe Flash, Dream weaver, Apache Axis, Log4j, Toad, SQL Explorer, DB Visualizer, Navicat, Management Studio, Bamboo,Cruise Control Dashboard.
Methodologies	OOAD, RUP, Agile (Scrum/Extreme Programming).
Patterns	Java/J2EE Design pattern
Cloud	AWS, Docker, Kubernetes, MicroServices, Azure, Pivotal Cloud Foundry

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## EducationalHistory

### Bachelors in Computer Science

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## Work Experience

### Sr. Java Developer Virtusa, Canada

**Aug 2023 to Feb 2024**

**Description:** Global Model Data Repository (GMDR) is a part of application rationalization initiative with the objectives of helping to streamline the near-real-time/intra-day integration and enable rationalization of applications. The immediate focus for this team is to rationalize Global Fixed Income application, the data repository for post trade information from ICI impact and other FI systems that is at the end of its application lifecycle. With a key objective of High-speed parallel data integration, multi-tier data access with highlyscalable parallel query execution & low-latency data access, Exception Handling- providing ability to users to update information to handle specific exceptions in data and Identifying lineage of data consumed by downstream applications.

#### **Responsibilities:**

- Involved in Generating extracts and reports using autosys scheduler.
- Used shell shripts, Springboot application and Java to generate extracts/reports.
- Using Python commands/scripts to run the Job and load the data into the Greenplum database.
- Involved extensively in writing SQL and PL/SQL Stored Procedures and Functions.
- Writing Junit Test cases using MOCKITO framework
- Involved in JUnit Testing on various modules by generating the Test Cases.
- Used Ansible for deploying the source code.
- Involved in migration of the files from one environment to other.
- Review project documentation: Common application issues, Checkout steps, Release notes, Test Cases
- Constantly involved in discussing the application features to operations and deciding on any new improvements that can be done to accommodate the challenges.
- Helped DMA & Linux teams in successfully running the Test jiras and providing manual deployment instructions for release.
- Assist Support/ Implementation teams in application deployment issues faced during UAT/ PROD environments.
- Involved in JUnit Testing on various modules by generating the Test Cases.

**Environment:** JAVA, Greenplum Database, Autosys (Scheduler), Eclipse, Ansible, Azure DevOps, Springboot, SQL, PL/SQL, Oracle, Web Services, REST, JUnit, Mockito, SVN, Oracle 11g, Sybase, Cyberark, Linux shell scripting

### Sr. Java Developer Deutsche Bank Toronto, ON

**Jul 2020 to Feb 2023**

**Description:** Customer Data Repository (CDR) is a web based electronic repository that stores all

Deutsche Bank Customer and Account information used by the Money Transfer High Value Payment(HVP) Processing Systems. Customer data is held and utilized by Money Transfer Components for thepurpose of enriching or completing transactions and facilitating straight through processing. CDRinteracts with almost all components of MTNA viz. STP, PSE, Funds Release and Meraca for collectingcustomer information to validate contents of payment being processed. CDR GUI provides functions toenable the inquiry and maintenance of data via user interface. Every transaction in MTNA will becharged using Transaction Pricing.

## Responsibilities:

- Worked in requirement gathering, design and development of the application in Agile methodology using SCRUM.
- Multi-channel system for originating and processing a full range of credit product applications such as Loan, Line of Credit, Visa, etc.
- Involved in implementation of application using conventional design practices (SOA-Service Oriented Architecture, MVC-Model View Controller)
- Developed user interface using Bootstrap, HTML5, CSS3, Java Script, Ajax and JQuery
- Worked on the modernization of a legacy and outsourced UI, Technologies used were Backbone.js, Angular.js and JQuery.
- Created data-models for customer data using the Cassandra Query Language
- Worked on different modules of spring, including SpringIntegrations and springboot Designed and implementing a Node.js and bootstrap.js based mobile messaging app.
- Developed a MEAN Stack Application Using Mongo DB, Express JS, Angular and Node JS
- Developed Servlets and JSPs based on MVC pattern using Spring Framework.
- Proficiency in developing Model View Controller (MVC) Architecture based applications using Spring Frameworks.
- Extensive knowledge on application development using JAXB, JAXWS and EJB. • Used Docker and Kubernetes as Containers for deployment and CI process
- Created web applications prototype using Angular JS, Node.js.
- Involved in web component design and development using the spring framework, JSP, Servlets, and taglibs.
- Developed the spring AOP programming to configure logging for the application.
- Consumed SOAP Web Services to retrieve customer information and integrate with User Interface, used JAX-RS to develop RESTful resource to integrate with Web Interface.
- Created maven archetypes for generating fully functional REST web services supporting both XML and JSON message transformation.
- Developed various screens for the front end using ReactJS and used various predefined components from NPM (Node Package Manager).
- Made the devops pipelines using Openshift and Kubernetes for the Microservices Architecture
- Experience in developing Microservices using Spring-Boot.
- Used Kubernetes to orchestrate the deployment, scaling and management of Docker Containers.
- Developed Web services and Web service clients using Apache CXF.
- Developed Data Access Objects (DAO) using JDBC API for Database access.
- Involved in loading and storing objects using Hibernate.
- Responsible in code review and design doc preparation
- Have worked on Oracle 11g database for storing and retrieving the application data.
- Calling PL/SQL stored procedures to display data into database.
- Used JPA with Entity Beans for interacting with Persistence Layer for CRUD operations.
- Developed Spring batch process to create outbound files.
- Used Eclipse for developing JSPs, Servlets, Spring and with Apache Tomcat server in the development phase.
- Worked with the Weblogic Application Server to build, publish and deploy the application.
- Developed Messaging framework for Asynchronous messaging service using JMS and MQ-series.
- XML was used to create the db schema-mapping file for Hibernate.
- Helped a team in performing tests using JUnit and automation scripts for UI.
- Configured LDAP server to be used with Spring Security to provide authentication for internal application

**Environment:** Java, J2EE, Agile/SCRUM, GIT, SOA, HTML5, CSS3, Javascript, JQuery, Bootstrap, Angular JS, Backbone JS, Node JS, Spring, EJB, JSP, Servlets, SOAP, maven, Spring AOP, SpringBoot, RESTful, Apache CXF, DAO, Hibernate, PL/SQL, Oracle 11g, JPA, CRUD, Apache Tomcat, Weblogic, JMS, Spring Security.

## **Full stack java developer**

**Unisys**

**Halifax, NS**

**Nov 2019 to Jun 2020**

**Description:** Unisys provides the new age of digital banking - evolving customer expectations, frictionless ease of use, and always on security. It is a completely integrated omnichannel digital banking software framework and suite of applications that enables secure, continuous, and seamless customer journeys regardless of the touchpoint – mobile, internet, branch, or contact center.

### **Responsibilities:**

- Developed using Java, Spring Boot and RESTful Web services using annotations like @RequestMapping, @ResponseBody and @RestController.
- Developed CRUD REST API using POST, GET, PUT and DELETE methods
- Used Hibernate ORM tool for mapping between database and POJO objects in Java.
- Used React JS in development of the web application to bind the data/model that is being retrieved from a database through services provided in a controller to the view using scope
- Hibernate framework is used in persistence layer for mapping an object-oriented domain model to the relational database.
- Creating Entities and TO and Search Criteria
- Writing Junit Test cases using MOCKITO framework
- Developed REST Service IT Test cases.
- Developed data access queries using HQL and Hibernate Criteria API.
- Worked on highly advanced and user interface design and development using Angular 5/6/7, NodeJS, React JS HTML5 and CSS3.
- Worked on Cassandra database for storing the transaction dataUsed Swagger for API Interface to UI Team and Testing.
- Implemented various design patterns in the project such as Data Access Object (DAO) and Singleton.
- Used Version Control GIT and build tool Maven.
- Experienced with JIRA, Confluence and Bitbucket
- JIRA used for bug tracking and task assign (Agile) • Confluence used for read and writing documentation.
- Extensive experience in developing Microservices using Spring Boot
- Used IntelliJ IDEA Tool.
- Used Agile / Scrum software development and release management for delivering enterprise applications through multiple release cycles.
- Involved extensively in writing SQL and PL/SQL Stored Procedures and Functions.
- Deployed the application onto Tomcat server.

**Environment:** Java 8, Spring, Hibernate, Spring Boot, Postman, Agile, Oracle, Jenkins, IntelliJ IDEA, Eclipse, RESTful Webservices, Postman, Jenkins, Maven, Tomcat, IntelliJ IDEA, Junit, Mockito, Agile, GIT, SVN, Unix, Windows, XML, WSDL, SOAP, UML, HTML, CSS, JavaScript.

## **Java Developer**

**Empire Life**

**Kingston, ON**

**Apr 2018 to Oct 2019**

**Description:** The Empire Life Insurance Company was founded in 1923 in Toronto and is now one of the top 10 life insurance companies, and one of the country's largest managers and distributors of investment funds and other managed asset products, with approximately \$158 billion in total assets under management. Its activities are carried out principally through Investors Group Inc.

## Responsibilities:

- Helped the team to increase cluster size from 55 nodes to 145+ nodes. The configuration for additional data nodes was managed using Puppet.
- Installed and configured Hadoop MapReduce, HDFS, developed multiple MapReduce jobs • Integrate Apache Spark with Hadoop components
- Java for data cleaning and preprocessing.
- Extensive experience in writing HDFS and Pig Latin commands.
- Developed complex queries using HIVE and IMPALA.
- Developed data pipeline using Flume, Sqoop, Pig and Java map reduce to ingest claim data and financial histories into HDFS for analysis.
- Implemented Map Reduce jobs in HIVE by querying the available data.
- Worked on different modules of spring, including SpringIntegrationsa and springboot Designed and implementing a Node.js and bootstrap.js based mobile messaging app.
- Configured Hive metastore with MySQL, which stores the metadata for Hive tables.
- Analyzed the data by performing Hive queries and running Pig scripts to study customer behavior.
- Written Hive and Pig scripts as per requirements.
- Responsible for developing multiple Kafka Producers and Consumers from scratch as per the software requirement specifications.
- Developed Spark Application by using Scala
- Optimized Microservices using NodeJS and ES6 as interfaces to Cassandra NoSQL database.
- Integrated Apache Storm with Kafka to perform web analytics. Uploaded click stream data from Kafka to Hdfs, Hbase and Hive by integrating with Storm.
- Implemented Apache Spark data processing project to handle data from RDBMS and streaming sources.
- Designed batch processing jobs using Apache Spark to increase speeds by ten-fold compared to that of MR jobs.
- Developed Spark SQL to load tables into HDFS to run select queries on top.
- Developed Spark code and Spark-SQL/Streaming for faster testing and processing of data.
- Used Spark Streaming to divide streaming data into batches as an input to Spark engine for batch processing.
- Highly skilled in integrating Kafka with Spark streaming for high speed data processing • Used Spark Dataframes, Spark-SQL, Spark MLLib extensively

**Environment:** AWS, Java, HDFS, MapReduce, Spark, Pig, Hive, Impala, Sqoop, Flume, Kafka, HBase, Oozie, Java, SQL scripting, Linux shell scripting, Eclipse and Cloudera.