MANOJ KUMAR

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**EDUCATION**

Bachelors in computer science SRM University, India May 2013

Masters in Computer Science Texas A&M University, USA May 2016

**PROFESSIONAL SUMMARY**

* Over 8 years of Professional experience in IT industry, involving requirement analysis, design, development, and implementation of software applications.
* Expertise in designing and implementing Web Services, Microservices and RESTful Applications using J2EE, Core Java, ReactJS.
* Proficient in configuring and deploying applications in Docker and Kubernetes and AWS technologies like EC2, Lambda, EMR, API Gateway, SNS.
* Experience in using versioning tools like SVN and Git and continuous integration tools like Jenkins.
* Extensive experience in modern tech stack including Java, Spring Boot, JAX-RS, RabbitMQ, Kafka, Redis.
* Worked in migrating APIs to Microservices architecture from Monolithic architecture without impacting the business.
* Have strong exposure and work experience on core java concepts collection API, Stream API, Parallel Streams, exception handling, Multithreading, Hash Map, concurrency, JDBC, modularity, executor service, fork and join frameworks.
* Expertise in Microservices development dealt with Traffic Management and scope functionality, highly proficient in designing n-tier Enterprise application with J2EE design patterns like IOC (Inversion of Control), AOP (Aspect Oriented Programming), MVC, Business Delegate, Service Locator, Session Façade, DTO, DAO, Front Controller, Factory, and Singleton.
* Designed and implemented AWSEC2 Server setup and deployment, build, maintenance, and configuration of various AWS resources like, EC2, S3, Lambda, ECS, EBS, Elastic Load Balancers, Elastic Bean Stalk, Amazon RDS,AWS-Lambda, VPC, and IAM Security Groups that are utilized for different environments like dev, testing, Production.
* Experience in building front end web applications using ReactJs, Node, NextJs.
* Expertise in Database Design, Creation and Management of Schemas, writing Stored Procedures, Functions DDL, DML and SQL queries.
* Hands-on experience with different Servers like Apache Tomcat, Jetty, Web Sphere, Web Logic and JBoss.
* Extensive experience in IDE tools like IntelliJ, Eclipse and Net Beans.
* Proficient with database development and database tuning using SQL, PL/SQL and implementation for RDBMS like MySQL, Oracle, PostgreSQL and NoSQL like MongoDB, DynamoDB, Cassandra.
* Good working knowledge of Ant, Jenkins, Maven, and AWS for project build/test/deployment, logging and JUnit for unit and integration testing.
* Adept at programming & debugging in multithreading/multicore environment.

**TECHNICAL SKILLS**

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| **Languages** | Java, SQL, Python, Pig Latin, Shell Scripts, Groovy, Scala, Spark |
| **Java/J2EE Technologies** | Core Java, Spring, Spring Security, Spring Boot, Spring Batch, Hibernate, MyBatis, JSP, JSTL, JMS, ActiveMQ, JUnit, Servlet, JNDI, JDBC, Log4j, Slf4j, RabbitMQ, Elasticsearch, Spring Data JPA, Java beans |
| **Web Development** | HTML, CSS, JavaScript, AJAX, JQuery, BootStrap, AngularJS, JSON, Node.js, Express |
| **Web/Application Servers** | Apache Tomcat, JBoss, Glassfish, WebLogic |
| **Databases** | MySQL, Oracle, MongoDB, DynamoDB, PostgreSQL, Cassandra, SyBase, Spark SQL |
| **Web Technologies** | XML, CSS3, HTML5, DHTML, PHP, JavaScript, JQuery, MVC, Bootstrap, RESTful, AJAX, Java Script |
| **Web Services** | RESTful, SOAP, XML, XSD, UDDI, JAX-RS, Jersey framework, Apache CXF |
| **Amazon Web Services** | EC2, S3, Elastic Beanstalk, RDS, DynamoDB, Lambda, EMR, API Gateway, Cloudfront, SNS, SQS, SES |
| **Distributed System & Microservices** | Kafka, Docker, Mesos, Marathon, ZooKeeper |
| **Tools** | Eclipse, Matlab, Excel, IntelliJ, Navicat, Maven, Ant, Gradle, VirtualBox, JIRA, Bugzilla, JasperReports, UML, Enterprise Architect, Cucumber, Github |
| **Design Patterns** | JSTL, Singleton, MVC, Business Delegate, DAO, DTO, Session Facade |

**DETAILED WORK EXPERIENCE**

**Senior Java Developer ESRI- Redlands, CA (Aug 2021 – till date)**

* Exposed to Agile Scrum and involved in backend development of core platform using Spring framework.
* Responsible for Development of Web page using HTML5, JavaScript, jQuery, React.js, Immutable JS, CSS, SASS/SCSS including Ajax controls and JSON.
* Knowledge of using flux architecture in ReactJS for building client-side application.
* Developed and deployed UI layer using JSP, XML, JavaScript, HTML5, Ajax, jQuery, React JS and CSS3.
* Used new Java 11 features such as Lambdas, Streams, Observables and Completable Futures etc.
* Converted a Monolithic app to Microservices Architecture using Spring Boot 2.0 using a 12-factor app methodology. Deployed, Scaled, Configured, and wrote manifest files for various Microservices in OpenShift /Kubernetes environment.
* Redeveloped previous Recommendation System for users and created related RESTful web services under Spring MVC for frontend to implement data visualization.
* All the functionalities are implemented using Spring IO / Spring Boot and Spring JDBC.
* Performed data persistence through Java Dari framework and hibernate to store data to local databases like MySQL and PostgreSQL and remote Content Management System (CMS).
* Experience in developing scalable solutions using NoSQL databases CASSANDRA, MongoDB, and DynamoDB.
* Created scripts to convert Java Object from/to JSON Object using Jackson.
* Created the HTTP requests for sending JSON Object according to remote server logs and tested through Advanced REST client.
* Integrated Hibernate 4.1 along with Spring Data Redis and used annotations for mapping ORM classes to DB.
* Wrapper developed in Python for instantiating multi-threaded applications and running with other applications.
* Active involvement in migration of previous platforms from Spring-to-Spring Boot.
* Configured and deployed the backend platform to Amazon Web Services using AWS SDK.
* Implemented Spark using Scala and Spark SQL for faster testing and processing of data.
* Developed DAOs (Data Access Object) using Hibernate as ORM to interact with Oracle database.
* Automated and built Machine learning model pipelines using frameworks such as sci-kit learn on user identity security data to detect fraud and deployed them using Kubeflow.
* Closely worked with the Kafka Admin team to set up Kafka cluster setup on the QA and Production environments.
* Configured Docker containers and Kubernetes to manage dozens of micro services.
* Worked on code-merge, code integration and module integration. Involved in monitoring the defects and assigning them to the concerned.
* Involved in Test Driven Development (TDD) using JUnit and Mockito.
* Built and deployed project using Maven.

**Environment:** Java 8.0, Spring 4, Hibernate 4.2, JavaScript, MongoDB, bootstrap, Spring batch, Spring Boot, Spring Security, JPA, JMS, HTML5, CSS3, ReactJS, Cryptography, Eclipse, Swagger UI, AWS, Docker, Log4j, JIRA, Pure XML, Web Services, Kafka, Microservices, Tomcat, REST UI, Apache Tomcat 8.0, Oracle 11g, Log4J, JDK 1.8, Easy Mock, Maven, Eureka Server, Ribbon, Spark.

**Java Developer Zions Bank- Austin, TX (Jan 2018 – Aug 2021)**

* Exposed to Agile Scrum methodologies and participated in Sprints, involving cross-functional members, like architects, programmers, analysts, testers, and UI designers.
* Developed the web applications using Spring MVC and other components of the Spring Framework, with the controller being Spring Core, including writing actions/ classes/ forms/ custom tag libraries and JSP pages.
* Involved in the design and development of applications built in Java/J2EE using Struts, Spring and Hibernate.
* Extensively used Java 8 features such as lambda expressions, Parallel operations on collections, multithreading and for effective sorting mechanisms.
* Implemented Spark using Scala and Spark SQL for faster testing and processing of data.
* Used Spring MVC (Model View Controller) to handle/intercept the user requests and used various controllers to delegate the request flow to the Backend tier of the application.
* Worked with the team to develop POJO’s using spring framework for dependency injection and integrating it with Hibernate and Spring Data JPA.
* Involved in developing code for obtaining bean references in spring framework using Dependency Injection (DI) or Inversion of Control (IoC).
* Designed and developed B2B components using Spring MVC, Apache Camel, JMS, JAXB,  
   JAX-RS, Jersey.
* Mapped DTOs to Oracle Database tables and transfer Java data types to SQL data types by creating Hibernate mapping XML.
* Developed database schema, populating data and query using SQL and HQL statements, PL/ SQL functions, stored procedures, triggers and bulk uploads.
* Developed Presentation layer components comprising of JSP, AJAX, Struts Action, Struts Form Beans and AJAX tag libraries.
* Used JavaScript for developing UI Components like Editable drop down, data-driven menu customizations.
* Used WebLogic for installing, configuring, and deploying the application.
* Implemented Messaging using JMS to notify different business services to consume data from recommendation system.
* Prepared the REST and SOAP based service calls depending on the data passing to the web service.
* Implemented Elasticsearch for the purpose of full-context search and auto-suggestion.
* Designed and developed the UI using ReactJS, Bootstrap, JasperReport, HTML, CSS and JavaScript
* Used AJAX to implement asynchronous communication with server side.
* Developed JUnit test cases for unit testing, integration testing, functional testing and performance testing, and fixed raised bugs.
* Involved in implementation of message middleware service using TIBCO EMS.
* Written and Maintained Automated Salt scripts for Elasticsearch.
* Used Zookeeper as a configuration coordination and disaster recovery tools.

**Environment:** Java, J2EE, Spring, Hibernate, Struts, JQuery, AJAX, Sencha, ExtJS, JavaScript, Oracle, Crud, PL/SQL, JDBC, Apache CXF, Rest, Microservices, Eclipse, Web logic, ClearCase, Junit, Data migration, Spring Boot, Agile, UML JSP, JSTL, JAX-RS 2.0, Servlet, Maven, IText, GWT, Jasper report, ILOG, Web2.0, SOA.

**Java Fullstack Developer Macy’s- Atlanta, GA (Aug 2016 – Jan 2018)**

* Involved in the data middleware development and implemented web applications.
* Developed Spring MVC to implement administration management control layer.
* Implemented MVC architecture using Spring framework, Action Form bean and configured the Spring-config.xml file.
* Developed the application using Spring Framework that integrate all components together.
* Developed MongoDB as data buffer layer and MyBatis for data persistence in data access layer and processed CRUD for the data in the database.
* Implemented the persistence layer using Hibernate and configured Hibernate with spring to interact with the Cassandra Database from the DAO.
* Implemented Kafka producer and consumer applications on a Kafka cluster setup.
* Used Oracle database and used the Stored Procedures and Triggers in the application.
* Configured and deployed the web applications on WebLogic Application Server.
* Worked on multiple databases including MySQL, Mongo DB, and Cassandra.
* Used (JMS) MQ's like Apache Kafka, Rabbit MQ, IBM MQ and Active MQ for communication between sender and listener.
* Implemented Spring boot microservices to process the messages into the Kafka cluster setup.
* Extensively used Hibernate in data access layer to access and update information in the database.
* Fetched data information from the entity class according to the third-party APIs like Bloomberg API and Reuters API.
* Resolved issues relating to XML Transformations via BPEL using JDeveloper and Oracle SOA Suite.
* Extensively Worked with RAD and Oracle WebLogic to develop and deploy the application.
* Implemented SOA to develop **REST** Based Web services using Apache Axis.
* Prepared Test Cases and Unit Testing performed using JUnit.
* Used Java 11 Method References feature to point to methods by their names and used functional interfaces.
* Designed the data models to be used in data intensive AWS Lambda applications which are aimed to do complex analysis creating analytical reports for end-to-end traceability, lineage, definition of Key Business elements from Aurora.
* Implemented TDD and used JUnit test cases for all the developed modules and Mockito Framework to develop mock objects during Semi Automated Testing phase.

**Environment:** J2EE, Spring, Hibernate, Jenkins, Docker, Kubernetes, Kafka, Python, WebLogic, JSP, Spring Boot, Log4J, JUnit, JSF, ANT, JavaScript, HTML, CSS, AJAX, ReactJS, Angular JS, Bootstrap, AWS, SQL, Oracle, MongoDB, REST, Micro Services, Cloud, Rational ClearQuest, Windows.

**Jr Java Developer NCS Software- India (Jul 2013 – Jun 2014)**

* Interacted with various sales users and stakeholders to identify the Business Requirements of the project.
* Communicated directly with clients to explain requirements, updates, and any issues that may arise. Taken ownership of the client relationship and act as the primary point of contact for all client communications.
* Implement Spring framework for business logic and used Spring Security to deal with authentication and authorization.
* Used Hibernate as persistence layer for mapping package, customer, and courier related classes with tables in the database.
* Created Workflow Rules to automate Tasks, Email Alerts, Field Updates, time-dependent actions, and Outbound Messages.
* Used JMS for asynchronous messaging services to publish notification to all relative departments.
* Involved in the development procedures of the user interface pages with HTML, CSS, JavaScript and jQuery.
* Used GIT, and GitHub repositories for version control across common source code used by developers and maintained various code repositories.
* Coded JavaScript for page functionality and Pop-up Screens. Developed construction work system to provide vendor quotation request using jQuery, Servlets, Java Beans.
* Created User Interface Components with the help of JSP, JavaScript, jQuery, CSS, and HTML.
* Designed inventory management system to provide a way to track inventory levels, orders, sales, and deliveries.
* Developed the JSP pages and CSS to different screens to Transportation module in Fresh direct.
* Worked on SQL Scripts for Data Access such as selection, insertion, and deletion, joins of data from Oracle database.
* Worked with internal teams and external vendors to implement designs.
* Wrote test cases and run testing with JUnit.

**Environment:** Java1.6,JSP Struts, JDBC, JavaScript, Apache Tomcat, HTML, JavaScript, MySQL, Eclipse IDE