KARAN RAJ

**karanr1210@gmail.com**

**(209) 899-4092**

**Professional Summary:**

* Over **7 years** of extensive IT **experience** in all phases of **Software Development Life Cycle** (SDLC) which includes development, design, analysis, testing and Integration of various web based and client/server applications in multi-platform environments with **JAVA/J2EE** technologies. Expertise in **Core Java, Java, J2EE, Elastic Search, JSP, Servlet, spring4, Hibernate, Struts, SQL, Client/Server Programming, HTML, JUnit, Maven**.
* Experience in developing applications using SDLC methodologies like **Waterfall, RUP, Agile (TDD, SCRUM)** and Test-Driven Development.
* Developed **Service Oriented Architecture** (SOA) and Micro Service Architecture based **J2EE** applications.
* Utilized Java 1.8 features like Lambda expressions and Stream API for Bulk data operations on Collections which would increase the performance of the Application.
* Strong Knowledge and hands on experience is required in **Spring4 MVC**, CORE, Dependency Injection.
* Experience in developing and deploying applications on Cloud Platforms like Amazon Web Services.
* Managed Amazon Web Services like **EC2, S3 bucket, ELB, Auto-Scaling**, **SNS, SQS, AMI, IAM, Dynamo DB, Elastic search, Virtual Private Cloud (VPC)** through AWS Console and API Integration.
* Excellent in deploying the applications in **AWS** as **EC2** instances and created snapshots for the data that had to be stored in **AWS S3**.
* Defined AWS Security Groups which acted as virtual firewalls that controlled the traffic allowed reaching one or moreEC2 instances.
* Experience in Front-End UI technologies like HTML, XHTML, HTML5, CSS3, Java Script, Angular JS, Angular JS 2.0, React.JS**, Node.JS**, Bootstrap, AJAX and jQuery.
* Good knowledge in performance tuning of JVM heap size, garbage collections, java stack.
* Good knowledge on core java with strong understanding of **Multithreading, Collections, Exception handling, Garbage Collection.**
* Experience in applying best practice Design Patterns and Strategies to enterprise applications to reduce tight coupling, maximize performance and reduce maintenance/extensibility risks.
* Expert in Core Java and implementing concepts like **Multithreading, Concurrency, Exception Handling, File handling, IO**, Generics and Java collections in various projects.
* Experience with various MVC frameworks like Angular **Node.JS**, bootstrap.JS, react.JS, etc.
* Expertise in implementing design patterns **like Singleton, Factory, Prototype, Business Delegate, Session Facade, Service locator, Visitor, Observer, Decorator, Front Controller** and DAO pattern.
* Expertise in developing web pages using **HTML5, CSS3, Bootstrap, JavaScript, jQuery, Ajax and Angular JS** with webpage cross browser compatibility and responsive web design and have knowledge on Server scripting language like **Node JS**.
* Specialized in creating backend **Node.js** microservices and Restful APIs.
* Worked with a very talented team and on some of the coolest web platform technologies that includes **Java/J2EE**, **SOAP/REST web services**, spring, JPA, JQuery, AngularJS, **IBM WebSphere**, Oracle, and more.
* Experienced in developing web-based applications using Java/J2EE, Servlets, Struts (Struts, Tag Libraries and Struts custom validation rules, Tiles), **Spring IOC, Spring MVC, Spring AOP**, Spring Security, Spring Boot, Spring Web Flow, Spring Data, JDBC, Web Services (**SOAP** & **Restful** services) and ORM frameworks like Hibernate, iBatis.
* Excellent in developing REST and SOAP based Web Services using **JAX-RS, JAX-WS, WSDL, JAX-B, Apache Axis, Apache CXF** and Jersey frameworks.
* Experience using Hibernate for mapping Java classes with database and using Criteria API and Hibernate Query Language (**HQL**).
* Expert in Core Java with strong understanding of **Garbage Collector, SWING, Collections, Multithreading, Event handling, Exception handling and Generics.**
* Utilizes Java, **J2EE, Enterprise Java Beans (EJB)**, Portlets, Java Server Pages, JSF/Struts, Hibernate, JPA, JSON, XML, **WebSphere Application Server**, WebSphere Portal Server and Oracle Databases to perform work tasks on spring4 framework.
* Proficient in developing web services in Java using **JAVA, XML, JSON.**
* Good Knowledge of Data Access Object (DAO) pattern to introduce an abstraction layer between the Business logic tier (Business object) and the Persistent storage tier (data source).
* Worked with **SQL** databases like **Oracle, My SQL, IBM DB2** and Hands on Experience in working with **NoSQL** Database like MongoDB, Cassandra to manage extremely large data sets.
* Proficient in writing SQL queries, **PL/SQL** stored procedures, Triggers and creating business tables.
* Hands on experience in working with **JUnit, Mockito, and TestNG.**
* Experienced with deploying applications on to production servers, configuring various parameters of servers like **Apache Tomcat, JBOSS, BEA Web logic, IBM Web Sphere**.
* Skilled in using collections in Java for manipulating and looping through different user defined objects.
* Good Knowledge in using Dojo Components and integrating back-end applications with **AJAX** driven web 2.0 front-end using OO JavaScript framework.
* Creation of custom components, client libraries, **OSGI** services, deployments frameworks, querying and connecting to DB using **OSGI** bundles.
* Portable deployment of applications as a single object using Docker.
* Actively involved in the DevOps streamlining process through Jenkins CI and CD Release Automation.
* Used version controller tools like Tortoise Subversion (**SVN**), CVS and Git.
* Experience with and solid understanding of Micro Services.
* Created and consumed Micro Services based on Web API.
* Implemented a Continuous Delivery pipeline with **Docker, Jenkins and GitHub and AWS** AMI's.
* Experience in working with IDE'S like **Eclipse, Spring Tool Suite (STS), RAD and Intellij**.
* Have extensive experience working on Windows, Linux and **UNIX** Operating Systems.
* Ability to work effectively in cross-functional team environments and experience of providing training to business users.
* Good understanding of Business workflow, Business logic and Business methods for further implementation of user requirement in a distributed application environment.

**Technical Skills:**

* **Languages**: C, C++, Java 8, J2EE, Python, SQL and PL/SQL
* **Mark-up/XML Technologies**: HTML5, CSS3, Bootstrap, JavaScript, jQuery, AJAX, Angular JS 1.4, Node JS, XML, XSD, XSL/XSLT, SAX/DOM, DOJO and JSON.
* **Tools & Frameworks**: Struts, Spring, Hibernate, Spring4 MVC, Spring Web Flow, Spring IOC, Spring AOP, Spring Security, Spring Boot, JSF, JUnit, Apache CXF, SOAP UI, GWT, Jersey.
* Build Automation ANT, MAVEN, Jenkins, Gradle.
* **Web services**: SOAP, RESTful, UDDI, WSDL, JAX-RPC, JAX-RS, JAX-WS, JAX-B, Micro services, Apache Axis and Apache CFX.
* **Cloud Technologies**: Amazon Web Services (EC2, SQS, RDS, IAM, S3), Pivotal Cloud Foundry and Spring Cloud.
* **Web/App Servers**: Web Sphere, Apache, Apache Tomcat, JBOSS EAP, Web Logic Server and Apache Camel
* **Databases**: Oracle, SQL-Server 2005, MySQL server, MS SQL, IBM DB2, NoSQL DB like MongoDB and Cassandra.
* **IDE tools**: Eclipse, Net Beans, Spring Tool Suite (STS) and IntelliJ IDEA, RAD, Adobe Dreamweaver.
* Modeling/ CASE Tools Rational Rose and MS Visio Professional.
* **Testing Tools/ Others**: TestNG, JUnit, TOAD, Soap UI, Putty, Rational Clear Quest, RTC, Load UI and Mockito.
* **Version Control**: Tortoise SVN, CVS, Rational Clear case, Source Tree and Git.
* **OS & Environment**: Windows Vista/XP/2000/NT, Win 2k Server, Sun Solaris, UNIX
* **Design Patterns**: Singleton, Factory, Prototype, Business Delegate, Session Facade, Service locator, Visitor, Observer, Decorator, Front Controller and DAO pattern.

**Educational Documents:**

* **Master of Science (Information Systems)** from Harrisburg University of Science and Technology.
* **Bachelors in Computer Science and Engineering** from JNTU, Hyderabad, India.

**WORK EXPERIENCE:**

**Groupon Inc., Chicago, IL May’2017 – Till Date**

**Java Backend Developer**

**Responsibilities:**

* Experienced in all stages of a **SDLC** (Requirements **analysis, Lifecycle planning, Designing, Coding, Integration, Documentation, Validation, Testing and Installation**) including **Agile**/**Scrum** workflow.
* Developed Microservices to provide **Restful** API utilizing Spring Boot with **Spring4 MVC**
* Agile Management and Software Development with Extreme Programming, Scrum, RAD and "Agile" RUP.
* Experienced with developing rich user interface applications using **HTML5, CSS3 and JavaScript, JQuery, Angular JS, Node JS, React JS, Backbone JS, Twitter Bootstrap, JQuery Mobile, XML, JSON** that follows W3C Web Standards and are browser compatible
* Used popular **Node.js** frameworks like Express and Rectify to mock a Restful API.
* Good Experience in writing and using **SOAP** and **Restful** Web services.
* Performance tuning of JVM heap size, **garbage collections**, java stack and Native thread & production performance.
* Responsible for configuring and deploying the builds on **WebSphere application Server**.
* Environment**: Java/J2EE**, JSF, RichFaces, JQuery, JQuery plugin, EJB3, Web Services, **Websphere 8.5**, SVN, IText, Docx4j, JavaScript, VB 6.0, ODM(Rules engine), Excel, and Mainframe.
* Had good hands on various concepts of Core Java such as OOPS concepts, Design Patterns, Multi-Threading, Exceptions, and Collections.
* Experience in creating custom, general use modules and components which extend the elements and modules of core **Node.JS**.
* Used Core Java concepts such **as multi-threading, collections, garbage collection** and other JEE technologies during development phase and used different design patterns.
* Experienced in web development using **HTML, DHTML, XHTML, CSS, JavaScript, DOJO, Angular JS, Angular 4 and AJAX technologies.**
* Consumed **REST** based Microservices with Rest template based on RESTful APIs.
* Providing high level tuning and optimization approaches for mission critical enterprise application   
  Working experience with Non-Relational Databases like **Mongo DB** (NoSQL).
* Used **Node.js** as a proxy to interact with Rest services and interacting with Database with react.
* Expertise in XML and related technologies like XSL, XSLT and parsers like JAXP (SAX, DOM) and JAXB.
* Experience in Spring4 Framework such as Spring Boot, Spring IOC, Spring Resources, Spring JDBC.
* Experience with and solid understanding of Microservices.
* Implementing or exposing the Micro services based on **RESTful** API utilizing **Spring** Boot with **Spring4 MVC.**
* Implemented microservices using **Spring Boot, Spring Cloud, Spring Microservices, and   
  Enabled discovery using Netflix Eureka server**.
* Developed REST API's using **Node.js** and experienced in using web services like SOAP, REST.
* Experience in working with Relational Database (**RDBMS**) concepts, database designing, Normalization, PL/SQL, Stored Procedures, Triggers and extensively worked with SQL Server, Oracle and MySQL.
* Experienced in MEAN stack development applications using MongoDB, Express.JS, Angular & **Node.js**
* Utilizes Java, **J2EE**, Enterprise Java Beans (EJB), Portlets, Java Server Pages, JSF/Struts, Hibernate, JPA, JSON, XML, **WebSphere Application Server**, WebSphere Portal Server and Oracle Databases to perform work tasks on spring framework.
* Used Apache **Kafka** for holding large number of messages and using **RESTful** service pushing messages to **Couchbase**
* Experienced in developing web applications using MVC frameworks, including Struts 2.x and **Spring4 MVC**.
* Extensive experience in Web application development using - **HTML, DHTML, CSS, XML, XSLT, XHTML, UML, JavaScript, Ajax, J2EE (JSP, JSTL, JMS, JSF, Servlets, JDBC, JNDI, Java Beans, LDAP, Struts, EJB**).
* Good Experience in Core Java concepts like JavaBeans, Collections Frameworks, and Multi-threading etc.
* Have used Jasper Reports 5.5.x as reporting tools and D3.js as Dynamic data visualization tool.
* Extensively used **HTML5/4, CSS3, Java Script and jQuery** 1.9/1.8 for User Interface development.
* Having hands on experience in deploying enterprise applications on Apache Tomcat 7.0, Glass Fish 4.x, Web Logic Server 11g and JBOSS application servers.
* Experience developing modern web applications using **MEAN** (**Mongo DB, Express.js, AngularJS and Node.js**)
* Spring4 MVC Framework Annotations mechanism to create RESTful applications.
* Experience using **JIRA** and Bugzilla5.0.x /4.4.x as issue and bug tracking tools.
* Experienced **with J-Unit Framework4**.x, Jasmine and Mockito for developing test cases using Test driven development (**TDD**) approach and log4j for logging.
* Involved in hands on programming on the core application development using multithreading, Groovy and Grails that combines **Hibernate and Spring**.
* Expertise in using **NoSQL** databases like **Mongo DB, Apache Cassandra** 2.0.12 as a distributed database management system and writing queries to it using CQL 3.0.
* Experience with databases like **DB2**, Oracle 9i, Oracle 10g, **MySQL, SQL Server, Sybase and MS Access**.
* Experience in creating complex SQL Queries and **SQL tuning**, writing **PL/SQL** blocks like stored procedures, Functions, Cursors, Index, triggers and packages.
* Developed Web services using Restful protocol for communicating between inbound and outbound projects using **Spring4** MVC.
* Used various Core Java concepts such as **Multi-Threading, Exception Handling, Collection APIs, Garbage collections** for dynamic memory allocation to implement various features and enhancements.
* Experience in Backing up databases using Mongo DB backup facility in OPS manager   
  Experience in using Ant1.x and Maven3.x for build automation.
* In-depth knowledge of PL/SQL with the experience in constructing the triggers, tables, functions, user defined data type, procedures etc.
* Developed **RESTFUL** web services to communicate using UI layer
* Experience of configuration tool CVS, Clear Case and Tortoise SVN developing on Linux, Windows Operating Systems.

**ENVIRONMENT:** Java, Multithreading, Concurrency, Exception Handling, J2EE, HTML, Hibernate, Java SDK, Web Logic, SOA, AWS, Micro Services, WSDL, UDDI, SOAP, JavaScript, JMS,Node.JS, Struts, JSON, Servlet, JSP, CSS3, HTML, jQuery, AngularJS, AJAX, JDBC, Oracle, Maven, MySQL, Log4J, SVN, UML, JAXB, XML, Scrum, Unix/Linux, Junit.

**Paccar, Renton, WA Jan’2016 – April’2017**

**Java Backend Developer**

**Responsibilities:**

* Worked on High level and low-level system design, planning, estimation and implementation.
* Developed presentation layer using **JSP, JSF, HTML5, CSS3** and client validation using **JavaScript, DOM**.
* Used two-way data binding features of **AngularJS** to implement Data binding to bind various server controls
* to the data from database.
* Used **Node.js** for deploying POC and used for Bower and other development automation tasks.
* Tuned TCP/IP, JVMs, JVM heap size, **garbage collections** and Native thread's.
* Implemented animation and styling using **CSS3** and **jQuery**.
* Worked on High level and low-level system design, planning, estimation and implementation.
* Developed presentation layer using **JSP, HTML, XHTML, CSS** and client validation using **JavaScript, DOM**.
* Involved in writing **JSP** and JSF components. Used JSTL Tag library to create standard dynamic web pages.
* Worked on XML and **JSON** for transferring and retrieving data between different applications.
* Worked on J2SE technologies like Core Java **(Collections, Garbage collection, Threads and Exception Handling**) and worked on J2EE like JDBC and Spring.
* Integrated **Node.js** with Hapi.js and communicated with Mongodb for CRUD operations on the data repository.
* Worked on generating the web services classes by using Service Oriented Architecture Micro Services, **SOA**, **WSDL, UDDI** and **SOAP**.
* Used Web Services for creating rate summary and used **WSDL** and **SOAP** messages for getting useful plans from different module.
* Implemented Core Java concepts like **Multithreading, Concurrency, Exception Handling and Collections** whenever necessary.
* Designed and integrated the full-scale **Spring/Hibernate** persistence solution with the application architecture.
* The back-end use of **Node.js**, Hapi.js, MongoDB and Mongoose the complete MERN Stack to provide RESTful API.
* Used various Core Java concepts such as Multi-Threading, Exception Handling, Collection APIs, Garbage collections for dynamic memory allocation to implement various features and enhancement
* Implemented Object Relational Persistence (Hibernate) for the domain model.
* Involved in design and development of the Hibernate Domain Model for the services.
* Worked on web services and associated business modules integration.
* Worked on development and implementation of the MVC Architectural pattern using Spring Framework including JSP, and Servlets.
* Developed a dashboard based on Ajax calls with Business customers count, Flags, Real-time graphs for analytical reporting using **Node.js**.
* Involved in identifying and implementation of different J2EE design patterns like Service Locator, Business Delegate, and **DAO**.
* Developed a production-level cloud-based architecture in AWS, including creating machine Images like AMI.
* Involved in creating resources stack on AWS EC2 using Cloud Formation by writing Template files.
* Worked in wide-area network to maintain all the device related data onto **MYSQL** database.
* Experienced in RDBMS such as **Oracle, Cassandra, MySQL, PostgreSQL** and IBM DB2 databases. Used NoSQL DB database **Mongo DB** for proof of concept and having experience in create a Stored Procedures and having experience in Remote Procedure call (RPC) and Redis.
* Used Express JS which is fast, assertive, essential and moderate web framework of **Node.js** that helps manage a server and routes.
* Developed the DAO layer for the application using Spring Hibernate template support.
* Used **JMS API** for communication between the components.
* Experience in writing complex **PL/SQL** queries using **joins, Stored Procedures, Functions, Triggers, cursors**, and indexes in Data Access Layer.
* Collaborated with testers and developers and prepared test plans for producing high quality software applications.
* Experience in using JUnit and build tools such as **MAVEN**. Worked on Log4j for logging errors, messages and performance logs and SVN for version control.
* Deployed and tested the application in Unix on **IBM** Web Logic Application Server.

**ENVIRONMENT**: Java, Multithreading, Concurrency, Exception Handling, J2EE, HTML, Hibernate, Java SDK, Web Logic, SOA, AWS, Micro Services, Node.js, WSDL, UDDI, SOAP, JavaScript, JMS, Struts, JSON, Servlet, JSP, CSS3, HTML, jQuery, AngularJS, AJAX, JDBC, Oracle, Maven, MySQL, Log4J, SVN, UML, JAXB, XML, Scrum, Unix/Linux, Junit.

**Vanguard, Malvern, PA May’2014 – Dec’2015**

**Java Developer**

**Responsibilities**:

* Gathering requirements on sprint planning meetings and working with business analysts for resolving design issues.
* Implemented initial setup of angular 4 application with node and npm modules.
* Implemented layout of front end web page with angular components and created angular services to interact with backend java application.
* Developed angular forms, routes, injectable services, 2-way binding attributes, event emitters.
* Written Type scripts for UI logic and written type scripts for unit testing of UI components.
* Configured Spring boot restful web services application and enabled actuator to monitor application health status.
* Developed front end using Angular.js, React.JS, **Node.js**, bootstrap.js, backbone.js, JavaScript, where back end is java with REST webservice.
* Configured Mongo repository and developed persistence objects with **Spring** Data Module.
* Developing business logic with Java core, collections and java 8 **lambda expressions**, **streamers**, **Local Date objects.**
* Created modal objects to integrate request and responses between front-end angular and java web services in **JSON** format.
* Created **DTO** objects, JPA repositories and created native SQL queries to persist data to database.
* Developed application using **Angular.JS and Node.JS** connecting to Oracle on the backend.
* Configured Maven and resolved life cycle dependencies and generated artifacts for deployment.
* Developed Test Driver components with **TDD** added code in crucible to find defects and resolve them before quality testing performed.
* Attending daily scrum meeting, sprint planning meeting, backlog refinements.
* Providing support to Level 2 team for any production issues and resolve them **ASAP** to avoid business impact.
* Involved in code review meetings and updating components as suggest by tech leads.
* Providing a responsive, AJAX-driven design using JavaScript libraries such as **JavaScript, jQuery, backbone.js, Node.js AngularJS and Bootstrap.js** - Using Subversion for version control.
* Creating feature branches and checkout and merging branches through Git repository and used **Git bash** commands from command line tool.

**ENVIRONMENT**: JDK 8, Spring Boot 1.7, Mongo Community 3.6, JPA, Jackson, JSON, Angular 4, Karma, JQuery, Tomcat Server 8, HTML 5, CSS, GIT, MAVEN 3, Junit 4, Atlassian JIRA, Confluence, Crucible, Node.JS, IntelliJ community, Robo 3T, Unix, Windows 7.

**United Health Group, Bangalore, India Jan’2011-Dec’2013**

**Jr .Java Developer**

**Responsibilities:**

* Analyzed Business requirements and existing software for High Level Design. Prepared System Requirement Specification (**SRS**) and functionality documents.
* Developed **UML** diagrams like Use case, class and sequence diagrams.
* Followed Scrum concepts of Agile Methodology to produce high Quality application.
* Used Spring Framework and J2EE components to develop **Controller classes, backend processes, complex services and database interaction**.
* Utilized Spring **MVC, IoC, AOP and DAO** modules.
* Applied **Object Oriented Methodologies and core J2EE** design patterns like Business Delegate, Service Locator, and Singleton.
* Developed web pages and client applications in **HTML, JSP, Free Marker, JavaScript and XML**.
* Used resource bundles for i18N Internationalization and property files.
* Published and Consumed **Web Services** using **Spring** and **JAX-WS** to provide information to internal applications. Used JAXB framework for handling **XML** data.
* Developed message notification system using **ActiveMQ** to notify the changes and update across the internal client apps.
* Designed and integrated the full scale **Hibernate** Persistence solutions with the application architectures and used Annotations Developed Session Bean for implementing the Business Logic.
* Orderly logged the whole process using log4j for auditing, debugging and error logging purposes.

**ENVIRONMENT**: Java 1.6, J2EE, Agile, JSP, UML, Spring MVC, JSP, Free Marker, ActiveMQ, XML, HTML, JSON, Hibernate, Log4j, JBoss, Eclipse, Oracle, MySQL.

**SKILLS SUMMARY:**

J2EE (8 years), JAVA (8 years), JUNIT (8 years), MODEL VIEW CONTROLLER (8 years), MODEL-VIEW-CONTROLLER (8 years), CSS (8 years), HTML (8 years) , Node.JS (7 years)