**Avinash**

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**Irving, TX**

**Professional Summary:**

* **Full Stack Developer** with over **6+ years** of strong IT experience, extensively in areas of enterprise and web application development involving system architecture, design, development and maintenance of enterprise level applications.
* Experience in **Spring Framework** such as **Spring IOC, Spring DAO, Spring ORM, Spring Resources, Spring JDBC, Spring Boot and Micro - Services.**
* Experience in working with different **spring modules** like **Spring IOC (Dependency Injection), Spring MVC, Spring AOP, Spring Data (JDBC, ORM), Spring Boot and Spring Batch.**
* Experience in developing front end applications using **HTML5, CSS3, JavaScript, jQuery, Bootstrap, XML, XHTML, DHTML, SAAS, LESS, DOM, Ajax.**
* Experienced in developing web applications with **Single Page Applications (SPAs)** Framework using **Angular 10/8/6/4** and **Angular.JS.**
* Experience in working on **Node.JS** Fundamentals including Modules, Callbacks, Events, Streams and Error Handling by making use of its Core Features like Event-Driven, Single Threaded model and NonBlocking I/ O model.
* Experience of using **IDE tools** **Eclipse 3.2, Netbeans7.1.2, IntelliJ IDEA** for **JAVA/J2EE** Application development.
* Experience in using and implementing design patterns such as **Model-View-Control (MVC), Data Access Object (DAO), Service Locator Factory, Singleton & Business Delegate.**
* Experience in working with **XML** data using **XPATH, DOM, XSLT, DTD** parsers like **SAX and DOM.**
* Experience in **Java messaging Service (JMS),**and messaging technologies such as**Message Driver Bean**.
* Experience in **JAVA/J2EE** Design Patterns like **Singleton, Factory, Abstract Factory, DAO, Business Delegate, Session Façade.**
* Designed and implemented **Kafka**-based solutions to enable efficient data ingestion, processing, and distribution across distributed systems, leveraging **Kafka's** publish-subscribe messaging model
* Experience in **Amazon Web Services** **(AWS)** like **EC2, Simple DB, RDS, Elastic Load Balancing, SQS, SNS, AWS Identity and access management, AWS Cloud Watch, Elastic Beanstalk and CloudFront, Redshift.**
* Good Knowledge in designing, deploying and operating highly available, scalable and fault tolerant systems using **Amazon Web Services (AWS)** and **Azure**.
* Experience in implementing **Microservices** using **Pivotal Cloud Foundry (PCF)** platform built upon **Spring Boot** Services.
* Utilized **Kafka** Streams **API** to build real-time data processing applications for tasks such as stream aggregation, filtering, and joining, enabling near real-time analytics and insights
* Experience in creating **Docker images, Containers, push/pull and integrating** with **Spring Boot** for running applications securely on container platform by flexible integrating existing processes with **log4J** for logging.
* Experience in deployment and configuration of Application Servers such as **IBM WebSphere, BEA WebLogic, Apache Tomcat, and JBOSS.**
* Experience in working with **Log4J** for logging, debugging and error tracing.
* Hands-on experience in unit testing framework **JUnit.**
* Experience in developing **RESTful** Web services, **SOAP** and **APIs** with **JSON** and **XML.**
* Experience in working with relational databases like **Oracle 10/11g, MySQL, DB2, Sybase** and nonrelational databases include **MongoDB, Cassandra,** writing complex **SQL Queries,** procedures, Triggers and Stored Procedures.
* Strong communication, collaboration & team building skills with proficiency in grasping new technical concepts quickly. Self-starter always inclined to learn new technologies and Team Player with very good communication, organizational and interpersonal skills.

**Technical Skills:**

| **Languages** | Java 11/8/7/6, PL/SQL |
| --- | --- |
| **Java/J2EE Technologies** | Java, JDBC, JNDI, JMS, JSTL, Java Beans, RMI, Java Multithreading, Generics and Collections, EJB, Tiles |
| **Web Technologies** | HTML5, XML, DOM, CSS3, JavaScript, XPath, AJAX, jQuery, Angular 10/8/6, Angular.JS, Bootstrap, Node.JS. |
| **Methodologies** | Agile, Waterfall |
| **Frameworks** | Spring, Spring Boot, Hibernate, MVC |
| **Design & GUI Tools** | Eclipse, NetBeans, RAD |
| **App servers** | IBM WebSphere, Apache Tomcat, BEA Web Logic, JBoss |
| **Databases/Tools** | Oracle, SQL Server, My-SQL, PL/SQL Developer, Kafka, RabbitMQ, ActiveMQ |
| **Design/Version Control** | GItHub, GIT |
| **Operating Systems** | Windows, Linux, UNIX |

**Professional Experience:**

**Client: Black Board, Phoenix, AZ (Codegravity)**   **Oct 2022 - Till Date**

**Role: Full Stack Developer**

**Responsibilities:**

* Involved in various phases of **Software Development Life Cycle (SDLC)** such as requirements gathering, modeling, analysis, design, development and testing.
* Developed the application using **spring Framework** that leverages the classical **Model-View-Controller (MVC)** architecture.
* Used **Spring MVC** framework at web tier level to isolate each layer of the application so that the complexity of integration will be reduced, and maintenance will be very easy.
* Designed and developed **Micro services** using **Spring Boot.**
* Developed Micro Services business components and **RESTful** service endpoints using **Spring Boot.**
* Developed the result web data visualization service including time selected, vision selected, and user selected by using the **Spring Boot.**
* Used **Spring Boot** Actuator to externalize application's configuration properties for various environments.
* Used **Hibernate framework** in persistence layer for mapping an object-oriented domain model to a relational database.
* Involved in Writing **JPA/Hibernate** queries.
* Developed and designed the web interface using **HTML5, CSS3, JavaScript, JQuery, Angular.JS, Node.JS** and **Bootstrap.**
* Developed **Single Page applications (SPA)** using **Angular 10** using components, directives using **Typescript.**
* Created custom directives in **Angular 10** for reusable components (multi-field form elements, background file uploads) and used filters while coding in **Angular 10.**
* Developed **Angular.JS** components that could be reused in various parts of the application and form field validation.
* Involved in developing **restful APIs** using **Node.JS** framework.
* Developed XML documents and generated XSL files for Payment Transaction and Reserve Transaction systems.
* Used **JMS (Java Messaging Service)** for asynchronous communication between different modules.
* Demonstrated expertise in integrating **RabbitMQ** messaging middleware into enterprise applications to facilitate asynchronous communication between components and services.
* Implemented concurrent message processing and load balancing strategies using **RabbitMQ's** multithreaded consumer model, enabling horizontal scaling and efficient resource utilization.
* Worked on creation of **Docker container** images, tagging, pushing images, integrating **Spring Boot,** created the **Docker containers** and **Docker consoles** for managing the application life cycle.
* Implemented performance optimization techniques such as partitioning, replication, and tuning **Kafka** configurations to achieve high throughput and low **latency** in message processing
* Involved in deploying the applications in **AWS** as **EC2**instances and created snapshots for the data that must be stored in Simple **Storage Service (S3)** buckets.
* Developed session **EJB**and **message driven bean (MDB)** to process **JMS XML messages**.
* Used **Log4J** to capture the logs that include critical business-related information.
* Used **JUnit** Framework for the unit testing of all the **java classes.**
* Setup the Continuous Integration (CI) & Continuous Development (CD) for the application using **Jenkins.**
* Worked on **MongoDB** and wrote code on find, update, save, insert data.
* Designed database and created tables, wrote the complex **SQL** Queries and **stored** **procedures** as per the requirements.
* Participated in **Agile** methodology for application development, had **SCRUM** meetings every day.
* Involved in Unit integration, bug fixing, acceptance testing with test cases, Code reviews.

**Environment:** Java 11, spring, MVC, Hibernate, Spring Boot, Micro Services, Eclipse, JPA, HTML5, CSS3, JavaScript, Angular 10, Angular.JS, Node.JS, JMS, XML, AWS, Git, Docker, EJB, Log4j, JUnit, Mockito, Jenkins, Terraform, SOAP, RESTFul, MongoDB, SQL, Agile, Windows and Mac.

**Client: Paychex, Rochester, NY.** (Codegravity) **July 2020 – Aug 2021**

**Role: Full Stack Developer**

**Responsibilities:**

* Involved in SDLC cycles like Analysis, Designing, developing, Testing and deploying the Enterprise applications using Java and Object-Oriented Design Patterns based on business requirements.
* Developed application on **spring framework** by utilizing its features like **Spring Dependency injection, Spring Security, Spring Web flow** with **Spring MVC.**
* Involved in developing code for obtaining bean references in **spring framework** using **Dependency Injection (DI)** or **Inversion of Control (IOC)** using annotations.
* Developed **Micro services** using **Spring Boot** and deploying Micro services into **AWS cloud** using **Jenkins.**
* Implemented **Spring Boot** with Micro services to divide the application into various sub modules.
* **Spring Boot** is used to remove boilerplate code which avoids code redundancy.
* Used **Spring Boot** at the back-end which helps to develop applications with ease.
* Developed the **ORM (Object-relational Mapping)** using **Hibernate** that can map the object domain to the relational database.
* Used **hibernate named queries, criteria queries, Hibernate Query Language** and **Optimistic Locking** and Caching to process the data from the database.
* Involved in the integration of the **Front-End web** interface with the **Spring MVC, Angular.JS, HTML5, CSS3 and JavaScript.**
* Worked in designing and implementation of Micro service-based applications using **Angular 8.**
* Worked on the Handling Forms of **Angular 8** to validate the input at **UI** level rather than validating the data at backend which is easy and saves time.
* Used **Angular.JS** Framework for creating Routes, Filters, Directives, Factory, and Services and to bind **HTML (views)** to **JavaScript** objects (models).
* Used **Node.JS** as a proxy to interact with Rest services and interacting with Database.
* Worked with **JMS Connection Pool** and the implementation of messaging using **Spring JMS** and Message Queues.
* Involved in development of **XML/XSLT/XSD** for schema definitions.
* Deployed infrastructure on **AWS** utilizing services such as **EC2, ELB, Amazon RDS and Elastic Beanstalk, AWS S3 and Cloud Watch Monitoring Management.**
* Developed deployment descriptors for the **EJB** to deploy on Web Sphere Application Server.
* Monitored the transition and recorded the corresponding result and information into the log file cooperated by **log4j.**
* Developed **Kafka** producers and consumers using **Kafka** client libraries in Java, implementing message serialization/deserialization, error handling, and message delivery semantics.
* Extensive experience integrating **RabbitMQ** with **Spring Framework** using **Spring AMQP** to build robust and scalable microservices architectures, facilitating seamless communication between Spring components and **RabbitMQ** queues.
* Used **JUnit** to do unit testing while developing the web-based application.
* Created and configured the delivery pipeline to implement continuous integration and deployment by using **Jenkins.**
* Implemented **Service Oriented Architecture (SOA**) and web services using **SOAP** with **JAX-WS**. Used **SOAP** for transmission of large blocks of **XML** data over **HTTP**.
* Used **MongoDB** as a **NoSQL** for storing **JSON** data.
* I used to write **SQL queries, Triggers, Functions**for **Oracle database**and developed some complex **SQL queries**.
* Followed **AGILE** methodology with **SCRUM** meetings.
* Actively participated and provided feedback in a constructive and insightful manner during weekly Iterative review meetings to track the progress for each iterative cycle and figure out the issues.

**Environment:** Java 8, spring MVC, Spring Security, Spring Boot, Micro Services, Hibernate, Git, JPA, Eclipse, RESTFul, HTML5, CSS3, JavaScript, jQuery, Node.JS, Angular 8, Angular.JS, Node.JS, AWS, Docker, JMS, XML, EJB, Log4j, Docker, JUnit, Jenkins, SOAP, MongoDB, SQL, Agile and Windows.

**Client: People Tech Group, Hyderabad, Telangana.** **May 2018 – June 2020**

**Role: Java Developer**

**Responsibilities:**

* Involved in understanding system requirements, application design, and functional specifications and verifying test strategies against the requirements.
* **Spring MVC** framework is used to develop enterprise applications and it helps to maintain loosely coupling. Spring IOC is used to inject dependencies and manage the life cycle of a bean**.**
* **Spring framework** is integrated with **Hibernate ORM** to connect the DAO **layer** with relational databases for data retrieval.
* Used **Spring Boot** which is radically faster in building cloud **Micro services** and develop a Spring-based application with very less configuration
* Developed the backend server with **Spring Boot,** involving different layers of the application including **entity/model, DAO/repository, Controller, Service, Business, and Persistence.**
* Involved in creating and designing a database and connecting the database with **Hibernate (ORM).**
* Used **Hibernate HQL** to query a database and perform CRUD operations.
* Integrated and developed UI components with business components and developed web pages using **HTML5, CSS3, JQuery and JavaScript.**
* Created **Angular** Directives, Components, Pipes, and Injectables across the whole system, such as to build the custom filter.
* Involved in working with **Angular** modules, services, templates, directives, services and dependency injection to create a **SPA.**
* Designed, developed a custom, single-page, responsive web application on front end using **Angular.JS.**
* Used **Node.JS** for building web applications with client-server architecture where both can initiate communication in two-way connections and allows them to exchange the data.
* Designed configuration **XML** Schema for the application.
* Used **JMS** to create, send and read messages.
* Used **AWS** like **EC6, SNS, SQS, S3, LAMBDA, Amazon Cloud Watch, Amazon SimpleDB, etc.**
* Used **EJB 3.0** Session beans using **JBOSS** Seam Context Management (Application, Conversation, Session scopes) and implemented Business processes such as user authentication, Transfer of Service using Session **EJBs.**
* Implemented the logging using **log4j** framework which is used to log both User Interface and Domain Level Messages.
* Developed test classes in **JUnit** for unit testing.
* Developed Web Services using **SOAP, WSDL, UDDI** and **JAX-WS** programming model.
* Wrote complex **SQL queries,** **DML scripts, stored procedures, triggers** and **PL/SQL** packages to interact with **SQL Server** databases.
* Following **agile methodology (SCRUM)** during development of the project and overseeing the software development in Sprints by attending daily stand-ups.
* Participated in the status meetings and status updating to the management team.

**Environment:** Java 8, spring MVC, Spring Boot, Micro Services, Hibernate, Git, AWS, HTML5, CSS3, JavaScript, Typescript, Angular 4/6, Angular.JS, Node.JS, DAO, JMS, XML, EJB, Log4j, JUnit, Kubernetes, SOAP, RESTful, SQL, Agile and Windows.

**Client: Code Tree Software Solutions, Hyderabad, Telangana.** **June 2017 – April 2018**

**Role: J2EE Developer**

**Responsibilities:**

* Designed coded, implemented, optimized and tested new features and modules for the derivatives system as part of an **agile** team and improved automation test suites.
* Developed web components using **MVC** pattern under **spring framework.**
* Performed requirement analysis, design changes, development and maintenance of the components using **spring MVC.**
* Worked on **spring modules** like Dependency Injection, Aspect Oriented Programming and **Spring Mail, Spring JMS and Spring Security.**
* Used **spring framework** to achieve loose coupling between the layers thus moving towards **Service Oriented Architecture (SOA)** exposed through **Restful** Services.
* Used **Hibernate** extensively to have Database access mechanism with complex queries through **Hibernate Query** Criteria interfaces and **Hibernate**to deal with the database.
* Developed a middle-tier application with **J2EE** using **Java Beans and Web Services.**
* Used **JMS** to establish message communication.
* Created and compiled **XML** Schema to generate Java Bean classes.
* Used **Eclipse IDE** for designing, coding and developing applications.
* Implemented **Java** design patterns like **Front Controller, Service Locator, Business Delegate, and Data access Object, Factory Pattern, Session Façade, etc.**
* Used **Web services (SOAP)** for transmission of large blocks of **XML data over HTTP**.
* Wrote the **SQL queries** for CRUD operations, and Stored Procedures.
* Performed Design review and Code review for well-known performance practices for better performance and code maintainability.

**Environment:** Java, spring, MVC, Hibernate, XML, JMS, Java Beans, Core Java, RESTFul, SOAP, SQL, Agile and Windows.