**Divyaa Mohankumar**

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**SUMMARY:**

With over 10 years of experience in Java and J2EE technologies, I have a strong background in developing and implementing software applications. I excel in creating interactive UIs using React, Angular, and other front-end technologies, and in building scalable applications with Spring Boot, Spring Cloud, and Hibernate. My expertise includes messaging systems like JMS, IBM MQ, and Kafka, as well as testing frameworks such as JUnit and Mockito. I have experience with continuous integration tools like Jenkins and Bamboo, and I am proficient in managing databases (Oracle, MySQL, PostgreSQL, MongoDB) and cloud services (AWS, Azure). I am skilled in version control with SVN and Git, and adhere to Agile and Waterfall methodologies, effectively managing multiple project tasks and troubleshooting issues.

**TECHNICAL SKILLS:**

| **Languages** | JAVA 8, JEE, HTML, JSP, XML, Python |
| --- | --- |
| **Web Technologies** | JSP, Servlets, JNDI, JDBC, JMS, JPA, EJB (3.0), Web Services, SOAP, WSDL, JSF (2.0), AX-RS, JSX-WS, HTML5, Java Beans, JavaScript, NODE JS, REACT JS, AJAX, CSS3. |
| **XML Technologies:** | XML, XSL, XSLT, SAX, DOM, AXIS, Castor, XML Beans and JAXB |
| **Web/App. Servers** | Apache Tomcat 4.0/5.0/6.0 |
| **IDEs** | Eclipse, intelliJ, Spring tool suit, Visual Studio |
| **Tools** | Ant, MAVEN, PL/SQL Developer, JUnit, I Report, JIRA |
| **Operating systems** | Windows, UNIX, Linux. |
| **Frameworks** | Spring Boot, Spring (Dependency Injection, Spring MVC, Spring Core, Spring Context, Spring AOP, Spring DAO, Spring IOC, Spring JDBC, Spring with Hibernate), Hibernate, Log4j, JPA. |
| **Services** | SOA architecture, RESTFUL/SOAP, Micro services |
| **Servers** | JBOSS, WebLogic 10g, 11g, IBM WebSphere, Apache Tomcat |
| **Development Methodologies** | Waterfall, Agile and Scrum |
| **AWS** | IAM, EC2, S3, Elastic beanstalk |
| **Version Control** | Git, Bitbucket |
| **Databases** | Oracle 8 / 9i / 10g, My Sql, MS SQL Server 7.0 |

**Delta Dental Ins , San Francisco, California Nov 2022 – Present**

**Junior Software Developer**

**Project Description:**

As a Java developer, I contributed to web-based application development using Agile methodologies, focusing on front-end UI with JSP, HTML, JavaScript, and AngularJS, and back-end integration with Spring, Struts, and Hibernate. I implemented RESTful services, SOAP Web Services, and persistence layers using Hibernate ORM. My experience includes automated builds with Maven, CI/CD with Jenkins, and deploying applications on WebLogic. I also worked on user authentication, business processes with Session EJBs, and utilized DropWizard for rapid RESTful web service development.

**Responsibilities:**

* Worked as **Java developer**, engaged in the participation for development and Implementation of Web based applications.
* Experience in developing applications with the help of Java and related technologies by using **Agile** methodologies.
* Experience in Preparing **Java/J2EE** development structure for **STS**, Eclipse.
* involved in analysis, design and developing front end/UI using **JSP, HTML, DHTML, JavaScript, jQuery** and **AJAX**.
* Worked on Developing **AJAX** scripting to process server side scripting with **JSP**.
* Developed the application as Single Page Application which can switch to different components using
* also worked on **Angular JS** controllers and created functions factory to interact with the
* **RESTful** Services using **AJAX** services like **$http** and **$resource** .
* Worked on framework **APIs** like **Spring 3.x**, **Struts 2.x** and **Hibernate 3.x** for Integration.
* Created **SQL** queries, **PL/SQL** Stored Procedures, required business objects, functions for Persistence
* layer and validating with Stored Procedures by means of **Oracle** and using **JPA** with **Hibernate** provider.
* Worked on implementing persistence layer with the help of **Hibernate ORM** to interact with the Oracle database. Used **Hibernate** Framework for **ORM**.
* Experienced in the procedure of Hibernate 3.x including integrating legacy databases, writing custom **CRUD** statements.
* Created Java Mail **API** is used to send notifications about important updates such as claim status change.
* Used **SOAP** Web Services for creating and usage **WSDL** and **SOAP** messages for getting business logic plans from various modules and used **XML** parsers for data retrieval.
* Experience in Eclipse frameworks for developing the Code and Deploy the Application by Integrating into the Server. Worked on developing hibernate **DAO** with the help Spring **JDBC** Template, worked on
* Hibernate for **ORM** and connection management.
* Developed, Designed and tested **SOA** services with the help of **Web Logic**/ **SOA** / **Oracle Fusion** Middleware technologies.
* Involved in Business processes such as user authentication, Transfer of Service using Session EJBs.
* Knowledge in Developing Presentation and Controller layers with **JSP, HTML5, CSS3**, Custom Tag Libraries, **JSTL**, Business layer using Spring **IOC** and **AOP**, Persistent layer **DAO**, JavaScript, andHibernate for all modules.
* Proficiency in the usage of Eclipse as **IDE**, configuring and deploying the application onto **WebLogic**
* application server by implementing **Maven** build scripts in automating the build and deployment process.
* Experience in writing test cases with the help of JUnit testing framework and configured applications on WebLogic Server.
* Used **GitHub** for version control configured Maven for dependencies and **Log4J** for **logging**.
* Used **Axios** for making **API calls** to handle login and register requests and **JWT token** for authentication session.
* Implemented **Cloudinary** to store and optimized images are fetched from **Cloudinary CDN** for fast loading.
* Implemented **ES6** in **NodeJS** to write cleaner, more maintainable, and efficient code.and MongoDB for storing all user data.
* Created the main application framework of Dental insurance app using spring boot framework,**JPA** repositories to manage **CRUD** operations.
* Used **Jenkins** for continuous integration in which all development work is integrated and involved in deploying the application using **Docker** to **AWS** environment.
* Experience working with various data formats, such as **CCD/CDA, XML,** and **JSON**
* Utilized **DropWizard** for rapid development of RESTful web services, benefiting from its out-of-the-box support for metrics, health checks, and configuration management.

**WabTec Corporation, Pittsburgh, Pennsylvania May 2021 - Oct 2022**

**Software Developer**

**Project Description:**

I redesigned search APIs to significantly improve response times and generated reusable jars, reducing development time. I implemented microservices with Spring Boot, integrated Kafka and Azure Cosmos DB for data storage, and enhanced application reliability using Hystrix and DropWizard metrics. Additionally, I developed front-end and back-end components for a company website using React, NodeJS, and MongoDB, and managed CI/CD processes with Jenkins and Docker.

**Responsibility:**

* Worked closely with System Analysts and Product Owners to ensure that the technical functionality of the application matched the business requirements.
* Redesign the implementation of search **API's**, resulting in a significant decrease in response time from 300ms to 186ms.
* Generated reusable jars for various API's, leading to a 30% reduction in development and maintenance time.
* Built a **Spring Kafka** listener to consume, transform, and store data in NoSQL databases such as Cassandra and Mongo.
* Implemented microservices architecture using **Springboot**.
* Leveraged **Azure COSMOS DB** like  **Mongo** to store and retrieve data for API’s.
* Implemented **Hystrix circuit** breaker to avoid loss of messages during handling of messages at the customer level.
* Developed **kabana** dashboards to analyze the metrics of the application.
* Written unit test and integration tests using **Spock** framework.
* Implemented centralized configuration services using Spring Boot to manage all application configurations in one location.
* Produced and consumed Restful web services by using the Spring boot framework.
* Experience in data aggregation and search using **Elastic Search.**
* Enhanced application monitoring and reliability by integrating DropWizard metrics for real-time insights into system performance
* Created  **front-end** and **back-end** for company website with React Router to manage navigation between home page ,listing the visit log,user profile and used **React Query** to fetch user data from backend **API** and synchronized it in real-time.
* Used Axios for making API calls to handle login and register requests and **JWT token** for authentication session.
* Implemented **Cloudinary** to store and optimized images are fetched from **Cloudinary CDN** for fast loading.
* Implemented **ES6** in **NodeJS** to write cleaner, more maintainable, and efficient code.and MongoDB for storing all user data.
* Created the main application framework of Dental insurance app using spring boot framework,JPA repositories to manage **CRUD** operations.
* Used Jenkins for continuous integration in which all development work is integrated and involved in deploying the application using **Docker** to **AWS** environment.
* Experience working with various data formats, such as **CCD/CDA, XML, and JSON**
* Utilized DropWizard for rapid development of **RESTful** web services, benefiting from its out-of-the-box support for metrics, health checks, and configuration management.
* Developed reusable components in **FTP** module, File processor.
* Developed and called Web services with **SOAP/HTTP** bindings from message flows.
* Developed a mule application using salesforce connector.
* Designed and developed integration process between salesforce and Legacy database.
* Worked on Error handling for the flows and routed the failures to **Cloudhub** connector and created
* alerts in the cloudhub to send the error messages to the Operations team.
* Involved in creating various **Data Access Objects (DAO)** for addition, modification and deletion of
* records using various specification files.
* Deployed the applications on **WebLogic** Application Server, **JBoss** and implemented Maven build scripts.
* Prepared Unit **Test Plan** & performed Unit Testing using **JUnit.**
* Used GitHub for version control configured **Maven** for dependencies.
* Implemented Business processes such as user authentication, Transfer of Service using Session **EJBs**.

**Webster Bank , New Britain, Connecticut Feb 2020 - Apr 2021**

**Software Developer**

**Project Description:**

Developed the Product Builder UI using Angular, Node.js, and Bootstrap, while designing a scalable, RESTful backend with Java and Spring Boot. Created and authenticated REST APIs using OAuth2 and Swagger, and enhanced project maintainability with improved exception handling and collection APIs. Deployed applications on Tomcat, managed AWS infrastructure, and implemented unit tests with JUnit and Mockito. Leveraged DropWizard for real-time performance monitoring and integrated Hibernate ORM for database interaction.

**Responsibility:**

* Developed the **Product Builder UI**screens using **Angular, Node JS, HTML5, CSS, JavaScript** and Bootstrap.
* Designing and implementing scalable, **RESTful**, and **Microservices-based backend**. The backend is being written in Java using Spring Boot for simplicity and scalability.
* Used Spring Core Annotations for Dependency Injection and Spring Boot for microservices.
* Creation and implementation of **REST APIs** and web services with controllers and classes developed and authenticated using **OAuth2**, using Swagger to design, build, document and consume APIs.
* Improved the maintainability of the project by implementing and improving **Exception Handling** and **Collection APIs**
* Implemented **UNIX** utilities using shell script for **data validation**, manual job submission, restarting failed jobs, etc.
* Actively involved in deployment Application war files in **Tomcat Application server**.
* Responsible for maintaining and expanding our AWS infrastructure using **AWS (EC2/EBS)**.
* Refactored the code for **JVM**Optimization and performance of application.
* Involved in Maven based build process and continuous integration of the project using Bamboo and Jenkins.
* Unit testing of developed product features using Junit and Mockito frameworks as part of development cycle.
* Designed and developed various **Oracle database** Simple and Complex Queries, **PL/SQ**L procedures, Stored Procedures, Trigger and Functions.
* Utilized **DropWizard** for developing **RESTful web services**, leveraging its out-of-the-box support for configuration, logging, and operational tools.
* Integrated **DropWizard metrics** to monitor and analyze the performance and health of microservices in real-time, enhancing overall system reliability.
* Used **SQL** statements and procedures to fetch the data from the database.
* Involved in writing Spring Configuration **XML**, file that contains declarations and business classes are
* wired-up to the front-end managed beans using Spring **IOC** pattern.
* Used Springs Hibernate and **DAO** layers to offer abstraction for the business from the database related code **(CRUD)**.
* Created Web Services for Remote calling using **SOAP.**
* Used Web Services for creating rate summary and used **WSDL** and **SOAP** messages for getting
* insurance plans from different modules and used **XML** parsers for data retrieval.
* Extensively used **Hibernate** concepts such as inheritance, lazy loading, optimistic locking, and transactions.
* Developed use case diagrams, class diagrams, database tables, and provided mapping between
* relational database tables and object-oriented java objects using **Hibernate**.
* **POJO** based domain model integrated with Hibernate **ORM** for persistence Aggregation of data based on the summarized data of **Supply Chain**.

**Wegmans Food Market, Rochester, NY Sept 2017 -Jan 2020**

**Software Developer**

**Project Description:**

Developed the Product Builder UI screens using React, Node.js, and Bootstrap, and implemented a scalable, RESTful, microservices-based backend with Spring Boot and Java. Created REST APIs with OAuth2 authentication and Swagger documentation, and enhanced project maintainability through improved exception handling and collection APIs. Managed AWS infrastructure, deployed applications on Tomcat, and utilized Hibernate ORM for database interactions, along with extensive use of Spring, Struts, and Hibernate frameworks for integration.

**Responsibility:**

* Developed the Product Builder UI screens using **React, Node JS, HTML5, CSS, JavaScript** and **Bootstrap**.
* Designing and implementing scalable, RESTful, and Microservices-based backend. The backend is being written in Java using Spring Boot for simplicity and scalability.
* Used **Spring Core Annotations** for **Dependency Injection** and Spring Boot for microservices.
* Creation and implementation of REST APIs and web services with controllers and classes developed and authenticated using **OAuth2**, using **Swagger** to design, build, document and consume APIs.
* Improved the maintainability of the project by implementing and improving Exception Handling and **Collection APIs.**
* Implemented UNIX utilities using shell script for data validation, manual job submission, restarting failed jobs, etc.
* Actively involved in deployment Application war files in **Tomcat Application server**.
* Responsible for maintaining and expanding our AWS infrastructure using **AWS (EC2/EBS)**.
* Refactored the code for**JVM**Optimization and performance of application.
* Involved in Maven based build process and continuous integration of the project using Bamboo and **Jenkins**.
* Unit testing of developed product features using **Junit and Mockito** frameworks as part of development cycle.
* Designed and developed various Oracle database Simple and Complex Queries, **PL/SQL** **procedures**, Stored Procedures, Trigger and Functions.
* Involved in writing program documentation and technical specification documents.Worked on Developing AJAX scripting to process server side scripting with JSP.
* Developed the application as Single Page Application which can switch to different components using
* **Angular JS** also worked on AngularJS controllers and created functions factory to interact with the
* **RESTful** Services using AJAX services like $http and $resource .
* Worked on framework APIs like S**pring 3.x, Struts 2.x and Hibernate 3.x** for Integration.
* Created **SQL** queries, **PL/SQL** Stored Procedures, required business objects, functions for Persistence
* layer and validating with Stored Procedures by means of Oracle and used **JPA** with **Hibernat**e provider.
* Worked on implementing persistence layer with the help of Hibernate ORM to interact with the Oracle
* database. Used Hibernate Framework for **ORM**.
* Experienced in the procedure of Hibernate 3.x including integrating legacy databases, writing custom **CRUD** statements.
* Created **Java** Mail API is used to send notifications about important updates such as claim status change.
* Used **SOAP** Web Services for creating and usage **WSDL** and **SOAP** messages for getting business logic
* plans from various modules and used **XML** parsers for data retrieval.
* Experience in Eclipse frameworks for developing the Code and Deploy the Application by Integrating
* into the Server. Worked on developing hibernate **DAO** with the help Spring **JDBC** Template, worked on Hibernate for **ORM** and connection management.
* Developed, Designed and tested **SOA** services with the help of **Web Logic/ SOA / Oracle Fusion** Middleware technologies.

**Accel Frontline ltd, Chennai, India June 2014 to Aug 2017**

**Associate Software Developer**

**Project Description:**

Developed and maintained front-end pages using React, Node.js, and Bootstrap, creating dynamic single-page applications with multiple views. Implemented microservices architecture with Spring Boot and Kafka, and asynchronous RESTful services with RabbitMQ and ActiveMQ. Utilized Java 8 features for interface compatibility and concurrency, and employed JUnit, Mockito, and PowerMock for unit testing. Designed and configured CI/CD systems with Jenkins, Kubernetes, and Docker, and managed Azure network settings and MySQL databases for full-stack application development.

**Responsibility:**

* Maintained Interface compatibility and concurrency in the project using java 8 new features like default, static methods and Concurrency API.
* Designed front-end pages using **React, HTML5, CSS3, JavaScript, Bootstrap, ReactQuery, NodeJS** for interactive cross browser functionality, complex user interface and using **AJAX** to build responsive, dynamic pages.
* Create a single page application with loading multiple views using route services to make dynamic by using **React and Node JS**.
* Developed Spring Boot application using Microservices architecture to maintain small and lightweight services and communication between these services are done by using Kafka.
* Designed and developed asynchronous **RESTful Microservices** using SpringBoot that are consumed by other Microservices.
* Used annotation approach to develop the application using Spring Boot and was involved in setting up the Spring bean profiling.
* Integrated the **SpringCloud** application to send messages to RabbitMQ.
* Implemented the function to send and receive messages on RabbitMQ synchronously and asynchronously and send **JMS** messages to **Apache Active MQ** on the edge device.
* Performed Unit Testing using **JUnit, Mockito and PowerMock** and interacted with QA for testing.
* **Apache Maven** is used as a Build tool to automate the build process for the entire application.
* Implemented application logging and investigated for debug issues using SLF4J and Log4j.
* Developed **CI/CD** system with **Jenkins on Kubernetes** container environment, utilizing Kubernetes and Docker for the **CI/CD** system to build, test and deploy.
* Designed and configured **Azure Virtual Networks (VNets)**, **subnets, Azure** network settings .
* Developed, and maintained full stack applications and APIs used in both physical and virtual environments. Worked collaboratively to design new features and improve existing features.& creating database of products using **MySQ**L to allow for integration, designing front end user interface using **HTML, CSS**, & **NodeJS**.
* Designed SQL database containing user data, creating APIs using Node JS for front-end consumption via React JS.
* Developed companyweb page **UX/UX** element interactions using **HTML**, **CSS,** **JavaScript**, **Photoshop**, & Figma, designing logos & animated images to enhance marketing materials for the company website.
* Developed Business components using Java Objects, Core Java, Multithreading, Servlet, JSP.
* Used Java Architecture for XML Binding (JAXB) for marshaling and unmarshaling java objects and XML. And Serena Dimensions was used for the version control of source code.
* Developed a report program to migrate project definitions and **WBS** elements from **GSF** system **IES** system.
* The **Log4j** framework was used to debug and trace the application.
* Experience in creating Tables, Indexes, Constraints, Users Defined **Functions, Views, Stored Procedures,Triggers** and complex **SQL** statements.
* Experienced in writing complex **SQL Queries**, Stored Procedures, T**riggers, Views, Cursors, Joins,**
* Constraints, **DDL, DML** and User Defined Functions to implement the business logic and created clustered and **non-clustered** indexes.

**Education:**

* **Master of Science, Computer Science Engineering (2023)**

Pace University,New York City,NY,USA

* **Bachelors in Engineering, Computer Science (2016)**

SNS College of Engineering ,Coimibatore,India