**B Pallavi** 

**Full Stack Java Developer**

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**Summary:**

* Having **9+ years** of experience in developing applications using **SDLC** methodologies like **Waterfall**, **RUP, Agile (TDD, SCRUM)** and **Test-Driven Development** as a Full Stack developer and two years of experience as Java developer.
* Utilized **Java 11 and 8** features like Lambda expressions and Stream API for Bulk data operations on Collections which would increase the performance of the Application.
* 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.**
* Experienced in designing, deploying and maintaining various applications utilizing AWS services stack including Elastic Cloud Compute **EC2, S3, EBS, EFS, Elastic Beanstalk, Route 53, CloudFront, DynamoDB**, Red Shift, Key Management Service (KMS), Identity & Access Management (IAM), CloudFormation, Kinesis Firehose, Elastic Load balancing, Elastic Cache, **SNS, SQS, AWS Backup, API** Gateway, CloudWatch, Cognito, AWS Config focusing on high availability, fault-tolerance and auto scaling.
* Experience in developing and deploying applicationson **Cloud Platforms** like **Amazon Web Services.**
* 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 more **EC2** instances.
* Designed and developed a modern application using **React, JavaScript, TypeScript, NodeJS, Java, Python** and **Golang** for interactive cross-browser functionality and complex user interface.
* Developed **Service Oriented Architecture (SOA)** and **Micro Service Architecture** based **J2EE** applications.
* 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.
* Expertise in developing **web pages** using **HTML5, CSS3, Bootstrap,** **JavaScript, jQuery, Ajax** and **Angular 8** with web page cross browser compatibility and **responsive web design** andhave knowledge onServer scripting language like **Node JS.**
* Excellent in developing **REST** and **SOAP** based **Web Services** using **JAX-RS, JAX-WS, WSDL, JAX-B, Apache Axis, Apache CXF** and **Jersey** frameworks.
* Experienced in **implementation of JMS** to exchange information over reliable channels in an asynchronous way by using **Active MQ, Rabbit MQ**, **Kafka** as message queue.
* Experience using **Hibernate** for mapping Java classes with databases and using **Criteria API** and **Hibernate Query** **Language (HQL).**
* Integration with SSO such as OAUTH and Hands on experience in automating the build and deployment process using Python.
* 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** andHands on Experience in working with **NoSQL** Databases like **MongoDB**, **Cassandra** to manage extremely large data sets.
* Proficient in writing **SQL queries, PL/SQL stored procedures, Triggers** and **creating business tables.**
* Proficient with container systems like Docker and container orchestration like EC2 Container Service, **Kubernetes**.
* Used **Kubernetes** to orchestrate the deployment, scaling, and management of Docker Containers.
* Experienced with deploying applications on to production servers, configuring various parameters of servers like **Apache Tomcat, JBOSS, BEA Web logic, IBM Web Sphere.**
* Good Knowledge in using **Dojo** Components and integrating back-end applications with **AJAX** driven **web 2.0 front-end** using **OO JavaScript** **framework.**
* Actively involved in the **DevOps (Jenkins, Terraform, Dockers)** streamlining process through **CI** and **CD** Release Automation.
* Responsible for implementing the java integration components for **drools.**
* Used version controller tools like **Tortoise** **Subversion (SVN), CVS** and **Git.**
* Experience with solid understanding and creating and consuming **Microservices** based on **Web API.**
* Implemented a Continuous Delivery pipeline with **Docker**, **Jenkins and GitHub and AWS AMI’s**.
* Experience in working with **IDEs** like **Eclipse, Spring Tool Suite (STS) and IntelliJ.**

**TECHNICAL SKILLS:**

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| **Languages** | C, C++, Java, J2EE, SQL, Python |
| **J2EE Technologies** | Java, J2EE, RMI, Sockets, JDBC, Servlets, JSP, JMS, Java Beans, JSTL, Struts, JSF, Spring, Hibernate, JPA. |
| **Tools& Framework** | Struts, Spring, Hibernate, Spring MVC, Spring boot, Spring Web Flow, Spring IOC, Spring AOP, Spring Security, JSF, Junit, SOAP UI |
| **Web services** | SOAP, Restful, JAXP, JAXB, JAX-RS and Service Oriented Architecture (SOA) and Microservices. |
| **Web Technologies** | HTML5, CSS3, JavaScript, JQuery, AngularJS, Angular8, XML, Ajax, Bootstrap, NodeJS. |
| **XML Technologies** | XML, DTD, XSD, XSL, XSLT, XPATH |
| **Cloud Technologies** | Amazon Web Services (AWS). |
| **Databases** | Oracle, MySQL, IBM DB2, SQL server, NoSQL, MongoDB, Cassandra, PostgreSQL |
| **Web/App Servers** | Apache Tomcat, Oracle/BEA WebLogic, JBoss Servers. |
| **Build Tools** | Maven, ANT, and Jenkins. |
| **Development Tools (IDE)** | Eclipse, IBM RAD, IntelliJ and Drools |
| **Testing Tools/Others** | JUnit, Mockito, Soap UI, Log4j and JIRA |
| **Version Control** | Git, CVS, IBM Clear Case, and subversion (SVN). |
| **OS & Environment** | Windows, UNIX, Linux, Mac |
| **Monitoring/Logging Tools** | CloudWatch, Datadog, Splunk, ELK |

**PROFESSIONAL EXPERIENCE:**

**Client: UnitedHealth Group, MN Sep 22 – Present**

**Role: Senior Full Stack Developer**

**Description:** It provides effective and simple solutions across the whole health system. I was involved in creating assessments for NJ state and followed the state business rules.

**Responsibilities:**

* Worked on frontend applications using HTML, CSS, and JavaScript codebase to develop new functionality and create new layouts.
* Worked on Java 1.8 features such as Lambda Expressions for making anonymous inline function calls by using Functional Interfaces which makes code readable and concise.
* Excellent in deploying the applications in AWS as EC2 instances and creating snapshots for the data that must be stored in AWS S3 and Utilized Amazon Web Services (AWS) EC2 to deploy Docker containers.
* Configured RDS instances using Cloud formations and terraform to build Jenkins jobs to create AWS infrastructure from GitHub repos containing Terraform code.
* Developed a production-level cloud-based architecture in AWS, including creating machine Images like AMI.
* Create and configure the continuous delivery pipelines for deploying Microservices and Lambda functions using Jenkins CI server.
* Involved in setting up Terraform continuous Integration (CI) and continuous deployment (CD) jobs in Jenkins.
* Used Jenkins pipelines to drive all micro services builds out to the Docker registry and then deployed to Kubernetes, Created Pods and managed using Kubernetes.
* Utilized Kubernetes and Docker for the runtime environment of the CI/CD system to build, test and deploy.
* Worked in Agile TDD environment using SDLC tools like SVN, Jira, Jenkins, Maven for build packaging and deployments of the application components.
* Developed the application with various Spring Framework modules like Spring IOC, Spring AOP, Spring Boot, Spring Security, Spring Batch.
* Used Context API for communication between various components in the applications and secured the API's by implementing Oauth2 token-based authentication/authorization scheme using spring security.
* Used Spring MVC framework at the Web tier level to isolate each layer of the application so that complexity of integration will be reduced, and maintenance will be very easy.
* Involved in using JPA (Java Persistence API) frameworks and APIs as JDO and Hibernate.
* Exposure to implementing RESTful driven interface and consuming JSON based RESTful APIs.
* Ensure that all inbound and outbound EDI transactions adhere to configurations for setup, debugging, and data validation while always adhering to HIPAA guidelines.
* Injected beans into the drools rule engine and invoked using a rule-based stateful session to create a variety of business rules in the .drl (drools file) format and follow the rules and regulations under business jurisdiction and documentation of the project.
* J2EE applications and code deployment processes were implemented to the JBoss Application server and Performed procedures for Apache Web server and JBoss Application server installation and maintenance.
* Participated in the process redesign using the JBPM editor to run business functions and complete workflow implementation and used JBoss Drools for business processing.
* Worked for ECS state project for adding new usertitle by using Java 11 and done regress integration testing.
* Worked on XML and JSON for transferring and retrieving data between different applications.
* Updated new version changes to avoid security vulnerabilities.

**Environment:** Java 1.8/11, J2EE, HTML5, CSS3, JQuery, Ajax. Bootstrap, JavaScript, Hibernate, Spring MVC, Spring IOC, Spring boot, spring security, OAuth, XML, GIT, JUnit, Maven, Restful, Drools, JBoss, JBPM, Amazon Web Services (AWS), Micro Services, Kubernetes Log4J, Oracle SQL, JIRA and Spring Tool Suite.

**Client: Align Technology, Inc. NC Sep 21 – Sep 22**

**Role: Full Stack Developer**

**Description:** Align Technology is a global medical device company that is changing lives through better smiles. I worked in Invisalign patient and virtual care portal development.

**Responsibilities:**

* Worked on frontend applications using HTML, CSS, JavaScript, and React JS along with Material UI. Developed Single Page Application (SPA) using React JS 16.8+ and built functional components, both stateful and stateless.
* Implemented user interface with React JS features such as components, forms, events, and flux.
* Worked on Java 1.8 features such as Lambda Expressions for making anonymous inline function calls by using Functional Interfaces which makes code readable and concise.
* Excellent in deploying the applications in AWS as EC2 instances and creating snapshots for the data that must be stored in AWS S3.
* Configured RDS instances using Cloud formations and terraform to build Jenkins jobs to create AWS infrastructure from GitHub repos containing Terraform code.
* Developed a production-level cloud-based architecture in AWS, including creating machine Images like AMI.
* Create and configure the continuous delivery pipelines for deploying Microservices and Lambda functions using Jenkins CI server.
* Experience with JavaScript coding for website layouts for current browser and mobile devices.
* Used Jenkins pipelines to drive all micro services builds out to the Docker registry and then deployed to Kubernetes, Created Pods and managed using Kubernetes.
* Utilized Kubernetes and Docker for the runtime environment of the CI/CD system to build, test and deploy.
* Developed the application with various Spring Framework modules like Spring IOC, Spring AOP, Spring Boot, Spring Security, Spring Batch.
* Used Spring AOP for solving crosscutting concerns like keeping customer log data and transactions details etc.
* Implemented Batch jobs to deal with large numbers of chunks using Spring Batch Framework to execute the similar jobs simultaneously.
* Proficient in Kotlin which was used primarily in the development of Android and iOS client applications.
* Used Spring Kafka API calls to process the messages smoothly on Kafka Cluster setup.
* Involved in SQL development using Stored Procedures, Views, and Queries with Oracle and DB2.
* Extensively used ETL to transfer, extract, and load data from source files (flat files) into the target database.
* Hands on experience in automating the build and deployment process using Python.
* Plans and coordinates the administration of PostgreSQL databases to ensure accurate and effective use of data and maintain security and integrity controls.
* Worked in Ansible and Ansible Tower as Configuration management tool, to automate repetitive tasks, quickly deploys critical applications, and proactively manages change.
* Worked on setting up Maven scripts to build, package, and deploy application code to the target Apache Tomcat Servers and worked on continuous integration servers like Jenkins.
* Used React JS library functions for the logical implementation part at client side for all the applications.
* Used React JS for templating for faster compilation and developing reusable components.
* Involved in using JPA (Java Persistence API) frameworks and APIs as JDO and Hibernate.
* Exposure to implementing RESTful-AngularJS driven interface and consuming JSON based RESTful APIs.
* Wrote services to store and retrieve user data from MongoDB for the application on devices.

**Environment:** Java 1.8, J2EE, HTML5, CSS3, JQuery, Ajax. Bootstrap, JavaScript, React, NodeJS, Hibernate, Spring MVC, Spring IOC, Spring boot, spring security, Python, OAuth, XML, GIT, JSP, JUnit, Maven, Restful, Amazon Web Services (AWS), ETL, Micro Services, Kubernetes Log4J, Oracle, MongoDB, WSD, JIRA and Spring Tool Suite.

**Client: Vision InfoTech. MO Jan 19 – July 21 Role: Full Stack Developer**

**Description:** The company provides software products, IT services and business process outsourcing for a variety of industries including insurance, banking, capital markets, manufacturing, and retail. I worked in insurance claiming and portal development.

**Responsibilities:**

* Involved in various phases of Software Development Life Cycle (SDLC) as requirement gathering, modeling, analysis, architecture design & development and worked with the business team to review the requirements.
* Developed static pages using HTML5, CSS3, JSP with Ajax calls in JQuery to retrieve data as JSON Object from back-end RESTful Server, then display the well-organized result in web pages by writing Angular8 controller, directives, services, and route providers. Also, used Angular8 filter to make the data searchable and sortable.
* Created a single page application with loading multiple views using route services and adding more user experiences to make it more dynamic by using Angular8 framework.
* Worked on Angular8 frameworks to develop interactive websites based on client needs.
* Built the reusable service components using Angular8 services with JavaScript, JQuery, HTML5.0, CSS3 based on the visual designs and Develop multiple Angular8 controllers and configured routes.
* Used Java 1.8 Lambda expressions along with Streams for creating internal iteration and performing chain operations such as Filter, Map, Collect on a collection.
* Used Spring MVC framework at the Web tier level to isolate each layer of the application so that complexity of integration will be reduced, and maintenance will be very easy.
* Used Spring AOP for solving crosscutting concerns like keeping customer log data and transactions details etc.
* Used Spring Batch for processing large amounts of data like transaction management, job processing, resource management and logging.
* Used Spring Kafka API calls to process the messages smoothly on Kafka Cluster setup.
* Involved in writing SQL and Stored Procedures for handling complex queries with help of TOAD and accessing them through Java Programs from Oracle Database.
* Developed REST API's using Spring MVC and Spring boot, hosted all micro services on AWS and used Elastic Beanstalk to setup application and configured environments.
* Involved in setting up Terraform continuous Integration (CI) and continuous deployment (CD) jobs in Jenkins.
* Involved in creating EC2 instances and installed required configurations and applications on it and created S3 buckets for storing object level data into it.
* Used Docker for creating Docker images for launching containers on AWS EC2 and Expert in using Docker for Environment provision solutions.
* Worked in Agile TDD environment using SDLC tools like SVN, Jira, Jenkins, Maven for build packaging and deployments of the application components.

**Environment**: Agile methodology, Java 1.8, HTML5, CSS3, JavaScript, Angular8, STS, J2EE, Hibernate, Spring framework modules, JSP, Oracle, MongoDB, MVC, Jira, Jenkins, JUnit, Maven, JAX-RS, Log4J, Apache Tomcat, Spring Boot, Micro services, AWS, Elastic Beanstack, Spring Batch, Docker, Elastic search, STS, Tortoise SVN.

**Client: Cablevision, Long Island, Virginia July 16 – Dec 18**

**Role: Full Stack Developer**

**Description:** The OPTIMUM is at the forefront of technology, content, and service. The major enhancement in this application is to provide parental control to block channels from live streaming and involve onboarding of new connections.

**Responsibilities:**

* Involve in gathering, analyzing, and documenting business requirements, functional requirements, and data Specifications for application development.
* Develop core Java programs for all business rules and workflows using Java and spring framework and Implement Hibernate for data persistence and management.
* Refactor existing code structure to separate core business logic and Data Access Objects (DAOs).
* Analyze and fix issues related to REST Web services and Application responses.
* Developed microservices from scratch by using Golang for the application.
* Worked on mobile web development using HTML, Kotlin, CSS and Javascript.
* Design and develop the presentation layer using JSPs, JQuery and JavaScript.
* Built ANT scripts for automated deployment and for the build operation of the entire application.
* Involved in the Development of Spring Framework Controllers. Developed Controller for request, response paradigm by Spring Controllers using Spring-MVC and Developed Spring boot application with Spring Cloud.
* Exposure to implementing RESTful driven interface and consuming JSON based RESTful APIs.
* Implemented Multi-Threading and Asynchronous WEB API calls to improve the performance of the application.
* Create indexes and analytics on Elasticsearch data and creating Splunk and datadog dashboard and alerts creation.
* Worked with Elasticsearch, log aggregation, data modeling, reporting, and data extraction using Elasticsearch, Logstash, and Kibana tools.
* Experienced in designing, deploying and maintaining various applications utilizing AWS services stack including Elastic Cloud Compute EC2, S3, EBS, EFS, Elastic Beanstalk, Route 53, VPC, CloudFront, DynamoDB, Red Shift, RDS, Key Management Service (KMS), Identity & Access Management (IAM), CloudFormation, Kinesis Firehose, Elastic Load balancing, Elastic Cache, SNS, SQS, AWS Backup, API Gateway, CloudWatch, Cognito, AWS Config focusing on high availability, fault-tolerance and auto scaling.
* Experience in automating the build and deployment process using Python for modification of existing code.
* Expertise in Cutting Edge Technologies like EJB, JPA, JMS and WebSphere MQ Series with good experience in Developing and Deploying Enterprise Java Beans (EJB) on Application Servers like WebLogic 10, WebSphere and JBoss.
* Involved in SQL development using Stored Procedures, Views, and Queries with Oracle and DB2.
* Configured various interceptors for transaction management, security, Audit logging (database) and logging using Spring AOP.
* Used Spring Kafka API calls to process the messages smoothly on Kafka Cluster setup.
* Implemented classes, interfaces, methods, constructors, and objects definitions using Typescript.
* Worked on Deployment Automation of all micro services to pull images from Private Docker registry and deploy to Kubernetes Cluster.
* Used RESTFUL client to interact with the services by providing the RESTFUL URL mapping.
* Exported web services using JAX-WS Spring support. Extensive experience in production support.

**Environment:** Java 1.7, J2EE, Eclipse, Spring Framework 4.0, Swings, Hibernate, XSLT, NodeJS, Oracle 10g, JPA, Web Services, REST, WSDL, TDD, XML, Agile, Spring boot, JAXB, Spring Boot, JUnit, Spring Boot, Mockito, WebSphere Server 7.0, DB2, DOJO RabbitMQ, Cucumber, Jenkins, AWS, Elasticsearch, Kibana.

**Client: AT&T, Plano, TX Aug 14 – May 16**

**Role: Java/J2EE Developer**

**Description**: AT&T Synaptic Storage as a Service is a web services-based storage solution that provides elastic capacity on demand with no commitments, minimums, or limits and allows access to your stored data from virtually anywhere and anytime. I worked as an intern for the project.

**Responsibilities:**

* Implemented Struts MVC design pattern and front controller pattern to this project.
* Developed user interface by creating at least one webpage for each component using Struts web MVC and Action Servlet as front controller for this application.
* Developed Action Class components for performing business process execution and involved in configuration of struts configuration specific xml file.
* Developed SCM by using the JSP/HTML, Kotlin like one form for each functionality user interface, standard validations using the JavaScript, Servlets used as the controllers for the business logic and business logic using JDBC, XML parsing techniques etc. using MVC.
* Developed Single Sign on (SSO) functionality, through which we can run SCM from Oracle Applications.
* Involved in developing the Routings and configured the Routing Program as scheduled for the concurrent request.
* Developed Server-Side components for the business services for creating Items, BOM, Sourcing Rules, and substitute.
* Build analytics and indexes on Elasticsearch data and utilize elastic stack in a production scale implementation, perform data related benchmarking and analysis.
* Extensively worked on Oracle for writing complex queries in the business logic layer. Used joins, debugging the SCM related packages and customization.
* Extensively worked on creating the setups for Organizations, Templates, Concurrent Requests, Cross Reference Types, User Creations, assigning responsibilities, creating value sets, Descriptive Flex Fields etc. in Oracle Applications.

**Environment**: Java, JDBC, Servlets, Struts, JSP, Hibernate, Java Mail API, AJAX, HTML, XML, ANT, Log4J, CVS, AWS, Oracle, Web Sphere, Elasticsearch.

**Client: Savisra Software Solutions Pvt. Ltd., Hyderabad, India Jun 12 – Julu14**

**Role: Java Developer**

**Description**: Was a part of a 3-member’s team, working under a Sr. Analyst, to identify and resolve technical issues during the design and development of its first Blast-Analytical System.

**Responsibilities:**

* Involved in the design and development of an entire Module – Guided Setup. Developed user interface through JSP and Servlets.
* Developed Customs tags to display dynamic contents and to avoid large amounts of java code in JSP pages.
* Develop core Java programs for all business rules and workflows using Java and spring framework and Implement Hibernate for data persistence and management.
* Experience working with XML (DOM and SAX) and Used SQL-server to store the items in the database.
* Developed Ant Scripts to build and deploy EAR files on to Tomcat Server. Analyzed the EJB performance in terms of scalability by various Loads, Stress tests using Bean- test tool.
* Extensively used Eclipse while writing code as IDE. Written complex SQL queries, stored procedures, functions, and triggers in PL/SQL.
* Developed test cases and used JUnit for Unit Testing.
* Used CVS for version controlling.

**Environment:** Java, J2EE, Servlets, XML (DOM and SAX), JSP, EJB, JavaScript, CSS, JDBC, Struts, Ant, Web Logic Application Server, Eclipse IDE, SQL-Server, Apache Tomcat, Oracle, PL/SQL, CVS, PVCS, Junit, Windows.

**Education:**

Master’s in information technology (MPS-HIT) – UMBC, Baltimore, USA