**Pranay Kumar Reddy Alwa**

**Java Developer**

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Java professional with around 5 years of diversified experience including Development, Technical Design, Implementation, Maintenance, Support and Testing in all stages of the Software Development Life Cycle (SDLC) in various domains.

**Professional Summary:**

* Proficient in implementation of frameworks like **Spring Boot**, **Spring MVC**, **Spring IOC, Spring AOP, Spring Security, Spring Data, Spring Batch** and ORM frameworks like **Hibernate**.
* Experience in designing both Front end & Backend applications using Java, J2EE Web frameworks, Java beans, Maven, **HTML5, CSS3, JavaScript, TypeScript, Angular**, AJAX, jQuery, Struts, EJB, JSF, SOAP, EXT JS, Servlets, **JSP**, XML, XHTML, **Bootstrap**, **Node JS**, Angular JS, **JSON**, JDBC, JNDI and JMS.
* Extensive Experience in developing applications using **Agile** development methodology.
* Experience in using **Java 8 features Streams, Lambda Functions**, Predicates, Functional Interfaces, Method references, Filters, Collections, and default methods.
* Experience in Installing, Configuring, Deploying, and maintaining Application and web Servers such as **Oracle Web Logic, Red Hat JBoss Enterprise Application platform (EAP), Apache Tomcat Server, IBM WebSphere, and Glassfish Application Server**.
* Extensive Design Implement and test services experience in a Microservice Oriented Architecture and has implemented the REST based **Microservices** using the Spring Boot, **Spring Data with JPA** (Java Persistence API).
* Worked on SPA (Single Page Web Applications) using **RESTFUL web services, JavaScript Frameworks, Ajax, Bootstrap, and Angular 4/6/8, React JS and Node.js.** DevelopedAngular components, templates, and services for new features.
* Experience in developing and consuming **RESTful Web services** and test them using **Postman** and used **Swagger** for documentation of the Web API.
* Good experience in using **Hibernate** for Database communication, retrieval, and update.
* Extensively used Hibernate in data access layer to access and update information in the databases.
* Experience working with web services using **SOAP, UDDI, WSDL, REST and implementation using APACHE AXIS and Jersey.**
* Experience in application integration using Web Services such as **JAX RPC, JAXB, JAX-WS, SOAP, WSDL, JAX-RS, Restful.**
* Hands on experience building UI using Angular, NodeJS and implemented **IAM/SSO/OAuth 2.0** for single sign-on.
* Expertise in Core Java concepts like OOPS, Data structures & algorithms, Collections, Event handling, Multithreading, Garbage Collector, Exception handling, Generics, I/O.
* Experience on design patterns like Singleton pattern, Factory pattern, MVC design pattern, **DAO**, and command pattern.
* Command on developing Java and J2EE applications on IDEs like **Eclipse**.
* Involved in **continuous integration and deployment (CI/CD)** using DevOps tools like Looper, Concord.
* Experience with Version Control Systems like **Git, Bitbucket, CVS, Bamboo, ClearCase and SVN(Subversion).**
* Experience with UML modeling like Class Diagrams, Case Diagrams and Sequential Diagrams.
* Extensive experience in building and deploying **EAR, WAR, JAR** files on test, stage, and production servers.
* Experience in Integrating and deploying applications using **Apache Camel, Apache CXF, ActiveMQ** and **JBOSS Fuse Enterprise Service Bus (ESB).**
* Experience in handling message brokers such as **RabbitMQ** and **Apache Kafka**.
* Hands on experience on building real time data pipelines using **Kafka** streams.
* Experience in working with CI/CD pipelines using OpenShift and Kubernetes for Microservices Architecture.
* Hands on experience on **Docker** and container technologies for building Micro service-based applications.
* Designed, configured, and managed public /private cloud infrastructures utilizing **Amazon Web Services (AWS)**, including **EC2**, **Elastic Container Service (Docker Containers), Elastic Beanstalk, S3, Cloud Front.**
* Created functions and assigned roles in AWS Lambda using java to perform event driven processing.
* Working experience of Relational DBMS like **MySQL Server, MySQL**, **Oracle,** DB2, Toad for performing SQL and PL/SQL programming and **NoSQL** DB like **MongoDB** and **Cassandra**.
* Good understanding of RDBMS through database design, Writing queries and stored procedures.
* Experience in Database Design, Creation, and management of Schemas, writing Stored Procedures, functions, Triggers, DDL, DML SQL queries and in writing SQL and PL/SQL programming.
* Experience in XML related technologies like **XML, DTD, XSD, XPATH, XSLT, DOM, SAX, JAXP, JSON and JAXB**
* Hands-on experience with version control systems like **CVS (Concurrent Version), SVN (Apache Subversion), Subversion Codes**, ClearCase and GIT for providing a common platform for all the developers.
* Experience with Test Driven development using tools like **JUnit, TestNG, Jenkins, Mockito, Selenium, Cucumber** and performed RD to develop Selenium cucumber frame. Hands on experience on Continuous Integration Tool (CICD) -Jenkins with Selenium.
* Experience with Maven for project build/test/deployment, **Log4j** for error logging and debugging, JUnit for unit and integration testing Test Driven Development (TDD).
* Experience with Mac, Linux, and Windows operating systems and multiple domains such as insurance, banking, telecom, and healthcare.
* Eager to learn new technologies and provide efficient solutions to business requirements.

**Technical Skills:**

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| Programming Languages | Java/J2EE, C#, Python, SQL, PL/SQL. |
| Scripting Languages | JavaScript, TypeScript, jQuery. |
| Databases | Oracle, MySQL, PostgreSQL, DB2, MongoDB, Cassandra. |
| Web Technologies | HTML/HTML5, XML, CSS/CSS3, Bootstrap, JSP, Ajax, Servlets, JavaBeans. |
| Frameworks | Spring boot, Hibernate, Angular, Spring Data JPA, Spring JDBC, Spring ORM |
| Web/Application Server | Apache Tomcat, WebSphere, JBoss, Web Logic, IBM Sphere |
| IDE's | Eclipse, IntelliJ, Visual Studio. |
| Java APIs | J2EE, EJB, Servlets, JSP, JSTL, Custom Tag Libraries, JAX-RPC, JDBC, JNDI, JMS, JAXB, JUnit, Mockito, Spring MVC, Hibernate, Spring AOP, Spring Security, Spring Rest, Spring Boot, JPA, log4j, Apache Kafka. |
| Testing Frameworks | Junit, Jasmine JS |
| Build Tools | Maven, Gradle, Docker |
| Automation Tools | Jenkins, Selenium, UFT. |
| Version Control | Git, Bit Bucket, SVN, CVS |
| Other Tools | Splunk, Jira, HPALM |
| Cloud Technologies | Amazon Web Services (AWS), Azure and Google Cloud Platform |

**Professional Experience:**

**Ford Motors.**

*Full Stack Java Developer.*

Dearborn, Michigan **Aug 22 - Dec 22**

**Roles & Responsibilities:**

* Developed Microservices for different level of layers in flow of network**.**
* Worked in the implementation of Microservices with RESTful API based on **Spring Boot** and **Spring MVC**.
* Involved in design and development of UI component using frameworks **HTML, CSS, Angular 8 and Bootstrap UI**.
* Implemented core features of Angular framework such as **dependency Injection, Databinding, Filters, Directives, Templates and Services**.
* Developed backend web services using Spring Boot and custom components for the web applications using Angular 8.
* Used Angular along with **Typescript**, HTML5, and CSS to create the Front-End server.
* Utilizing Angular component-based architecture, developed Typescript reusable components and services use the REST APIs. All dependency injections were done using the Spring MVC framework.
* Utilizing Angular, ES6, TypeScript, HTML5, CSS3, SASS, RESTful API, Services, JavaScript, Git, and JSON, created more user-interactive Web pages.
* Used Angular as the framework to construct an **SPA (Single Page Application)** that can synchronize data with the server and bind data to views.
* Utilized **HTTP services** to access Rest-based services from Angular 8.
* Configured a microservices architecture for the project directory and integrated it with Angular.
* Used Angular and an external module to alter the routing to create numerous custom filters.
* Utilizing **Java 8's** newfeatures, like default, static methods, and the Concurrency API, the project's interface compatibility and concurrency is managed.
* Utilized Spring and **Spring JPA** to develop backend services, data access objects, and data repositories.
* Utilized **Restful Web Services** to communicate with external systems provided by API Gateway Interfaces
* Knowledge of creating cloud computing microservices with Spring Cloud, Spring Boot, and Netflix's Eureka Discovery, Eureka Server, Zuul, Ribbon, Hystrix, and Feign.
* Utilized **Jira, Git, Jenkins** to implement a Continuous Delivery framework.
* Managed infrastructure, which involves deploying code from often **GitHub**-based repositories to servers and **Docker** containers as well as setting up servers and Docker containers using **Jenkins** for continuous testing.
* Implemented Microservice Architecture with Spring Boot based RESTful services and consumed **SOAP based Web Services**.
* Collaborated in the continuous integration processes for builds and deployments using Maven, Bamboo, and Jenkins and utilized JMS to send and receive messages to **Message** **Queues** using **Active MQ**.
* Worked on **AWS Lambda** to automate response to multiple events which includes HTTP requests via **API Gateway**.
* Implemented Microservice architecture with Spring Boot-based services that communicated using **Apache Kafka.**
* Developed Kafka Spouts and Bolts which filters the messages.
* Used Spring Kafka API calls to process the messages smoothly on Kafka Cluster setup.
* Implemented Kafka messaging to pull in stock data from the queue and load into Oracle table.
* Utilized **Jersey** to create a Restful Web service, **JAX-RS** to implement it, and **SSL** to provide security.
* Implemented the application using Spring IOC, Spring MVC Framework, Spring Batch and handled the security using Spring Security.
* Involved in the Development of Spring Framework Controllers.
* Experience in Importing data from various sources to the Cassandra cluster using Java API’s.
* Developed Microservices for different level of layers in flow of network.
* Utilized **AWS EC2, S3 Buckets, EBS, Lambda, SQS, and Amazon Kinesis Services** to deploy and build the project.
* Developed RESTful Web services for transmission of data in JSON format.
* Worked on creation of custom Docker container images, tagging, pushing images, integration of Spring boot.
* Worked with Docker for convenient environment setup for development and testing.
* Deployed application on **Apache Storm cluster**.
* Used Hibernate Relational Mappings (One-To-Many, Many-To-Many).
* Worked on **Hibernate Cache**, Query, Criteria and Transactions.
* Wrote complex **SQL** and **HQL** **queries** to retrieve data from the database.
* Utilized **JUNIT** and **Mockito** for application testing and set up **Maven** surefire plugins to be a part of continuous integration.
* Both User Interface and Domain Level Messages were logged using **Log4J**.
* Developed the Docker Containers and Docker consoles for managing the application life cycle.
* Integrated existing projects with cloud configuration management, spotlight and Kibana.
* Worked on end-to-end delivery of the products from requirement gathering, understandings, development, testing to deployments.

**Environment**: Angular 8, Microservices, RESTful Web Services, Tomcat, Gradle, Jenkins, Java 8, J2EE, JDBC, INDI, EJB, XML, IMS, Spring Boot, Hibernate, Spring (IOC, MVC, Boot, JDBC), Eureka Server, Zuul, Ribbon, Hystrix, Feign, SOAP, REST, Agile (SCRUM), Maven, Docker, jQuery, ISON, AJAX, JavaScript, CI/CD, Open shift, SQL, PL/SQL, Oracle 11g, Linux.

**Infosys Limited,** Senior*Systems**Engineer.* **Mar 20 - Aug 21** Hyderabad, India.

**Client: Westpac**

**Roles & Responsibilities:**

* Involved in requirements gathering, system design, analysis, implementation and setting up the development environment.
* Developed **Microservices** for different level of layers in flow of network.
* Implemented **Java 8** features for the application wherever optimization was required.
* Implemented Multithreading, Concurrency, Exception Handling and Collections whenever necessary.
* Used **Angular 6** and typescript for frontend to develop web pages.
* Used Spring View component, JSP, HTML, CSS, Angular JS, and jQuery to build and design the UI.
* Angular 4/6/7 components were used to replace the AngularJS controllers and services in order to improve responsiveness and reduce dependency.
* Involved in implementing the Microservices based on RESTful API utilizing **Spring Boot** with **Spring MVC.**
* The Spring Framework's **AOP** features along with the Hibernate-based database integration code to handle exceptions.
* Implemented the application using Spring IOC, Spring MVC Framework, Spring Batch and handled the security using Spring Security.
* Developed HTTP post and GET methods based on requirements, exposed the app using a **Rest** **Web** **service**, and handled errors using http status codes. REST API output data was tested using **Postman** API.
* Setup **Kafka** to read and write messages from external programs.
* The data needs to be processed for the module are created and stored in **XML** files.
* Developed and delivered Maven projects for **Jenkins** deployment while working on a Microservices team, and I also have expertise managing **Docker** containers in **Kubernetes**.
* Implemented **Service Oriented Architecture (SOA) using JMS (MQ series)** for sending and receiving messages while creating web services.
* Created and injected Spring Services, Spring Controllers and DAOs to achieve dependency injection and to wire objects of business classes.
* Worked on Web Services for moving XML data between two interfaces.
* Extensively used the Spring Framework implemented upon the MVC design pattern.
* Developed RESTful Web services for transmission of data in JSON format.
* Knowledge of creating and deploying micro services applications using the CF command line interface and the **Pivotal Cloud Foundry** (PaaS) cloud platform.
* Created deployment models for cloud foundry that described the topology of the underlying VM, Container, and application over numerous **PCF** foundations located all over the world.
* Worked on creation of custom Docker Container images, tagging, pushing images, integration of Spring Boot.
* Set up the **AWS** IAM and Security Group in the VPC's Public and Private Subnets.
* Configured and Deployed AWS **EC2** instances along with **AWS Security** Groups.
* Unit testing and logging frameworks were done using **Junit**.
* Created ANT scripts that would automatically save files from a remote server to a local one.
* Created the Docker Containers and Docker consoles for managing the application life cycle.
* Knowledge of **UNIX** commands, including how to see the production server's log files.
* Used Maven as build and dependency management tool for creating EAR, WAR and JAR File to be deployed in application servers and integrated with Git, Jenkins, JMeter and Jenkins Jobs.
* Responsible to deploy jobs in various environments like **DEV, SIT and UAT**.

**Environment**: AWS, Kubernetes, Maven, Karma, Jasmine, Java 8, REST, Micro-Services, Spring, Spring Boot, SOAP, Spring MVC, Hibernate, JavaScript, Docker, TypeScript.

**Infosys Limited,** *Systems**Engineer*. **Dec 18 – Feb 20**

Hyderabad, India.

**Client: Lexis Nexis.**

**Roles & Responsibilities:**

* Engaged in the design, development, and maintenance of applications that use **Angular 4, HTML5, Microservices, Docker, J2EE, Spring Framework, Spring MVC, Spring Integrations, and Spring Data.**
* Utilized **JavaScript, Typescript, HTML5, CSS, and JSON** for working on front-end development.
* Worked upon Angular 4 Service to interacts with RESTful services at the backend.
* Responsible for java development and performance enhancement, and Design of the Java 1.8 based Web and Enterprise application in Windows environment.
* JSP with JavaBeans, JSTL and Custom Label Libraries, JS, CSS, jQuery, NodeJS, HTML, Backtalk, and Ajax were used to create UI to speed up the service. Jenkins was part of the Apache **Tomcat** implementation.
* Utilizing Message Driven Beans and **JMS**-**ActiveMQ** to implement queue configuration.
* Utilizing the new unit testing technologies like Junit to maximize the test coverage.
* To interact with the DynamoDB database via JSON, a highly scalable, low-latency NodeJS API Gateway was built.
* Worked on UI - Response Design and major work on frameworks like **Bootstrap for CSS**.
* Participating Sprint meeting in every two weeks to discuss new requirements.
* Adopted the scrum methodology of agile software developments, to meet the ever-changing business need.
* Developed Restful APIs to read data from data Source's and processed the data in real time.
* Set up a Continuous Delivery pipeline using GitHub, AWS, Docker, and Jenkins.
* Utilized Apache Kafka cluster as a messaging system between the APIs and Microservices.
* Used REST APIs and Spring Boot, to migrate an existing application to a microservices architecture.
* Handled user information validations using regex functions.
* Worked on Apache Cassandra NoSQL Database data migration from Oracle database using Spring JDBC.
* For storing the values of the items and backing up the DynamoDB streams, DynamoDB was integrated.
* Successfully designed, developed, configured, and managed SQL Server systems to meet organizational and client requirements.
* The middleware services were tested utilizing JUnit and Mockito and the rest-based services were tested using REST.
* Used Kubernetes for installation, setup, clustering, and management of local deployments.
* Used Spring Boot and Microservices Architecture to create RESTful Services with JAX-RS.
* Created a Java API to connect to AWS S3 Services for data storage and retrieval from S3 buckets.
* Integrated and deployed code on CI environments for development testing using Continuous Integration environments.
* Involved in implementing business logic with Oracle Stored Procedures, Functions and Triggers.
* Troubleshooting the issues in production and fixing the issues.
* Involved in deploying the application in UNIX and to connect to see logs for fixing UAT/Production defects.
* Defect fixing during the application QA phase.
* Extensively used Struts Validator for server-side validations and JavaScript, Node JS for client-side validations.
* Developed Stored Procedures, queries to extract the Customers data from the database.
* Used Subversion for Version Control Management and all over worked on JDK 1.7 for core java.
* Involved in code reviews, debugging and testing, used Testing framework for automation.

**Environment**: Microservices, Spring Boot, CI/CD, AWS, Angular 4, jQuery, AJAX, JavaScript, Docker, Jenkins, GitHub, UNIX, Linux, Eclipse, JBuilder, MS, Java 8, Java 7, ActiveMQ, JPA, NodeJS, Multi-Threading, EJB, XML, JMS, CURD, GIT, Struts2.0, Hibernate.

**Infosys Limited,** *Systems**Engineer.* **Jan 18 – Nov 18**

Mysore & Bhubaneshwar, India.

**Client: Southern California Edison.**

**Roles & Responsibilities:**

* Experience in working and building RESTFUL web services to collaborate the product/branch subsystem.
* Developed Service layer using **Core JAVA, Spring, Rest and SOAP web services**.
* Developed Service layer with REST and SOAP Web Services and tested services using SOAP UI tool with test data for requests.
* Full life cycle experience including requirements analysis, high level design, detailed design, UMLs, data model design, coding, testing and creation of functional and technical design documentation.
* Implemented Data Access layer using DAO pattern with JPA to use Hibernate as ORM tool.
* Used Spring Aspects for implementing functionalities like logging functionality.
* Designed and implemented transaction management using Spring AOP.
* Implemented various design patterns in the project such as **Business Delegate, Data Transfer Object, Data Access Object and Singleton**.
* Designed and implemented application using JSP, Spring MVC, Spring IOC, Hibernate, SQL, Maven, Oracle.
* Used Hibernate framework for back-end development and spring dependency injection for middle layer development.
* Developed **JMS messaging queues** for the **asynchronous communication**.
* Installed and configured **JBOSS** on Linux server for Dev and QA environments.
* Deployed the application on JBOSS in DEV and QA environments.
* Extensively participated in Agile Scrum Development Methodology with Test Driven Development process, from the development phase to testing phase and postproduction phase.
* Deploying J2EE Applications in various Application servers like **WebSphere and Apache Tomcat** for System test, User Acceptance Test and Production environments.
* Developed and implemented GUI functionality using JSP, HTML, CSS, and JavaScript.
* Used SVN for version control. Resolved merge conflicts while working different branches.
* Worked with various databases like Oracle, SQL Server, MySQL and DB2.
* Involved on migrating SQL Server databases to **SQL Azure Database** using SQL Azure Migration Wizard and deployed the application to Azure cloud.
* Developed and implemented Unit test cases using JUnit.
* Developed a logging component using Apache Log4J to log messages and errors.
* Debugged the QA issues and tested on QA and UAT servers.
* Used **Maven** as a build framework and Jenkins for the continuous integration.

**Environment**: Core Java, Struts2.1, JSP, AJAX, HTML5, CSS3, JavaScript, Spring MVC, Hibernate, EJB, Eclipse IDE, JBOSS, Oracle, Maven, Windows, SVN, Linux.

**Education**:

Master’s in Computer Science, **University of Central Missouri**,**2022**.

Bachelor of Engineering, **Chaitanya Bharathi Institute of Technology**,**2017.**