

Pragna D

Email: dpragna003@gmail.com

PH: 205-259-8970

LinkedIn: <https://www.linkedin.com/in/pragna-d-636b13276>

Sr. Full Stack Java Developer

PROFESSIONAL SUMMARY

- More than 10 years of professional experience in Cross-Platform (Web & Client-Server) application development and design using Object-Oriented Programming, and Java/J2EE technologies.
- Expert in various Agile methodologies like Scrum, Test Driven Development (TDD), Incremental and Iteration methodology, Pair Programming, and Agile Development Testing using Software Development Life Cycle.
- Strong experience in UI frameworks JavaScript, React JS, Angular, and Angular JS.
- Experience in building applications using various frameworks like Spring, Hibernate, EJB, and JPA.
- Strong experience in Spring modules - Spring MVC, IOC, AOP, JDBC, JTA, IO, Spring Boot, Spring Microservices, Spring REST, Spring Eureka, Spring Ribbon, Spring Netflix, Spring Zuul, Spring WebFlux.
- Strong experience in Securing APIs using OAuth2.0 token-based authentication/authorization scheme using Spring Security.
- Strong experience in UI frameworks JavaScript, React JS, Angular 14, Node.js, and Angular JS.
- Experience in implementing the usage of Node.js and NPM, especially for Node build processes like GULP.
- Good Knowledge of NODE JS frameworks like Loopback and Express JS.
- Worked on AWS to integrate the picture files to JavaScript and worked on the backend development using Node.js and Mongo DB.
- Experience in Importing data from various sources to the Cassandra cluster using Java API's.
- Hands on experience with Apache Spark using Scala . Implemented spark solution to enable real time report from Cassandra data.
- Developed views and templates with Python and Django's view controller and templating language to create a user-friendly website interface.
- Experienced in developing web-based applications using Python, Django, PHP, XML, CSS, HTML, JavaScript, Next.js and jQuery.
- Proficiency in fetching data from APIs and integrating it into Next.js applications.
- Strong experience in Microservice patterns - Hystrix, Aggregator, Proxy chaining.
- Completed UI/UX design with Photoshop and Sketch for both transaction system and website.
- Experience in UX Design, encompassing tasks such as researching, testing, and implementing best practices to improve conversion rates and user experience on web and app platforms.
- Expertise in defining site structure, navigation, and page layout by creating site maps, wireframes, storyboards, and UI specifications, utilizing a strong interaction design process.
- Extensively used package management tools such as NPM, Yarn, and Bower to manage the modules and used it to install useful tools such as Grunt, Express, mongoose, mongo.js, and body-parser.
- Experience in JMS over messaging to exchange information in a more reliable and asynchronous way in enterprise applications and using Apache Kafka, Active MQ, Rabbit MQ, and AMQP as a JMS provider.
- Experience in handling messaging services using Apache Kafka.
- Install, configure, test, monitor, upgrade, and tune new and existing PostgreSQL databases.
- Experience in upgrading and migrating various versions of the PostgreSQL database on different platforms.
- Tested Restful web services using Postman, and SOAP UI.
- Experience with Spring JDBC Templates, JMS Templates, Spring EAI, and Spring Rest Templates.
- Experience in implementing SOA and Web Services using SOAP, RESTFUL, JAX-WS, and AXIS.
- Expertise in using Amazon Web Services AWS. Extensive experience in focusing on services like EC2, VPC, Cloud Watch, Cloud Front, IAM, S3, Amazon RDS, Elastic Cache, SNS, and SQS.
- Experience with git containers, AMIs to create Docker images/ containers, and Kubernetes container orchestration system.

- Good experience in implementing reactive programming using RxJava to manage asynchronous tasks and events.
- Solid knowledge of implementing frameworks like dependency injection RxJava.
- Strong Experience with build tools like CI/CD, ANT, Maven, and logging tools like Log4J.
- Used Version Control like CVS, SVN (Subversion), and Git.
- Strong Experience in Maven for build, Jenkins, and SonarQube continuous integration.
- Experienced in writing unit test cases using Junit, Testing, and Mockito, and Wrote JUnit Test Cases for challenging environments.
- Experience in Setting up the build and React deployment automation for Terraform scripts using Jenkins.
- Worked on various testing frameworks for front-end/user interfaces like Karma, Jasmine, Jest, Mocha, Chai, etc.
- Designed the Backend-API using Mongoose with the express framework. Connected to the Mongo database using Mongoose.
- Created Typescript reusable components and services to consume REST APIs using Component-based architecture provided by Angular 14.
- Good Experience in Automation testing using Rest Assured framework and Selenium Web Driver.
- Proficient in working with Relational Database Management Systems (RDBMS) like Oracle and SQL Server, including expertise in writing stored procedures, triggers, and cursors. Skilled in optimizing SQL queries for enhanced performance.
- Good working knowledge of AWS, Spring Boot, Spring Cloud, Docker, Maven, etc. in developing applications that use cloud-based services.
- Setting up scalability for application servers using command line interface for Setting up and administering DNS system in AWS using Route 53 Managing users and groups using Amazon identity and access management (IAM).
- Proficient in building Docker containers and pushing them to AWS ECR for secure storage and versioning.
- Implemented CI/CD pipelines using AWS CodePipeline and CodeBuild to automate the build, test, and deployment processes of Java applications on ECS.
- Developed XQuery scripts to query XML data and transform it into desired formats for data processing and analysis.
- Involved in building the application which works on mainly Groovy grails, Html, Css, Rest services, Java script, Spring, Maven, Hibernate.
- Proficiency in GCP services, such as Compute Engine, App Engine, Cloud Storage, Cloud Functions, Cloud SQL, and Firebase
- Experience in integrating and working with GCP databases, including Cloud SQL, Firestore, BigQuery, or Datastore.
- Hands-on experience in conducting comprehensive unit testing with Jasmine, ensuring the robustness of the code.
- Implemented Elastic bamboo in my organization and configured external database MySQL to bamboo on RDS.
- Developed and implemented ETL (Extract, Transform, Load) processes for large-scale data integration projects using ETL tools such as Apache NiFi.
- Designed and optimized data pipelines to efficiently extract data from various sources, transform it using Java, Spring Boot, and data processing frameworks, and load it into target systems.
- Good knowledge of version control tools like GitHub, CVS, SVN, Rational Clear Case, and Tortoise SVN.
- Experience in Developed Maven & ANT scripts to build and deploy J2EE Applications.
- Experience in using Web/Application Servers like IBM WebSphere 7.0, Apache Tomcat and JBoss, and BEA WebLogic.
- Implemented various Design Patterns (Session Façade, Value Object, DAO, DTO, Command, Singleton, Factory, Adapter, MVC, Service Locator, etc.) using J2EE technologies.
- Experience in database modeling, design, and development of PL/SQL stored procedures, and packages in relational databases: Oracle 10g/11g, IBM DB2, MySQL, and SQL Server.

PROFESSIONAL EXPERIENCE

 **Sr. Full Stack Java Developer**
Alliance Data Systems Corporations

March 2020 to Present
Austin, Texas

Responsibilities:

- Involved in analysis, design, implementation, and testing phases of SDLC through Agile methodology.
- Created a custom filter in React.JS in the application.
- Used services to read data from a remote server using React. JS.
- Used React.js library functions for the logical implementation part on the client side for all the applications.
- Developed and executed software systems utilizing JavaScript and Groovy.
- Created reusable components with React JS ex: multi-field form elements, and background file uploads.
- Developed application using Java 11 and implemented its features like lambdas Expressions, Time API, Streams, functional interfaces, collectors, default methods, and type interfaces, for each.
- Used a multithreaded environment to run processes asynchronously using future calls to access the data.
- Used Spring Security for Validation and authentication on the Client side, Session fixation, clickjacking, and cross-site request forgery (CSRF).
- Designed and Developed business components using Spring IOC, Spring Annotations, dependency injection, and transaction management through Spring framework.
- Developed Spring Restful/Microservices and implemented Spring Eureka, and Ribbon as part of Services Discovery using Apache Axis.
- Used Microservice architecture with Spring Boot-based services interacting through a combination of REST and Apache Kafka message brokers.
- Implemented Kafka security features using SSL and Kerberos.
- Configured Hibernate Cfg.xml to facilitate connection pooling with Data Source and created POJOs to map with backend tables.
- Implemented Object-relation mapping using Hibernate framework to fetch the data from the database and to write data into the database.
- Redesigned and re-implemented services using NGINX, Node JS, Express JS, Mongo DB, and MySQL.
- Worked on developing, testing, and deploying rules using JBoss BRMS Expert, Fusion, and Guvnor
- Developed Mongo DB Data Access Layer implementing Mongo Repository interface from Spring Data.
- Used Shell script Curl REST call to upgrade Cluster, create Forest, Database, and App Deployment.
- Using the JUnit test in Eclipse, developed Unit test cases and test suite, Curl was also implemented to test.
- Developed Maven scripts and used technologies for building continuous integration servers like Jenkins.
- Resolved bugs/defects by coordinating with team members to assure a positive outcome using Jasper.
- Used Rest client - POSTMAN and SOAPUI tools to test REST API services.
- Tested JSON output using Advanced REST Client or POSTMAN.
- Orchestrated container deployments, updates, and rollbacks using Kubernetes, reducing deployment time by 30%.
- Implemented services in modeling analytics platform using Grails and Groovy to expose restful web services to get consumed by UI layer.
- Used GIT for Source Control and Version Management and log4j for logging.
- Continuous Integration (CI) and Continuous Delivery (CD) process implementation using Jenkins.
- Implemented Microservices based cloud Architecture on the AWS platform for deployment.
- Created the Docker containers and Docker consoles for managing the application life cycle.
- Containerized Microservices by creating Docker images from Docker files and collaborated with the development support team to set up a continuous deployment environment using Docker.
- Created S3 buckets, managed S3 bucket policies, and utilized S3 buckets and Glacier for backup and storage on AWS.

- Worked with other teams to help develop the Puppet infrastructure to conform to various requirements including security and compliance of managed servers.
- Built a VPC, and established the site-to-site VPN connection between Data Center and AWS.
- Help with the creation of dev standards for Puppet module development including best practices for version control (git).
- Performed troubleshooting and monitoring of the Linux server using Zabbix, Nagios, and Splunk.
- Experience in building the build tool plugins and scripts with Groovy.
- Managed and Administered AWS Services CLI, EC2, VPC, S3, ELB Glacier, Route 53, CloudTrail, IAM, and Trusted Advisor services.
- Integrated services like GitHub, AWS Code Pipeline, Jenkins, and AWS Elastic Beanstalk to create a deployment pipeline.
- Enabled Amazon IAM service to grant permissions and resources to users. Managed roles and permissions of users with the help of AWS IAM.
- Involved in initiating alarms in CloudWatch service for monitoring the server's performance, CPU Utilization, disk usage, etc. to take recommended actions for better performance.
- Configured AWS Multi-Factor Authentication in IAM to implement 2-step authentication of user's access using Google Authenticator and AWS Virtual MFA.
- Included security groups, network ACLs, Internet Gateways, and Elastic IPs to ensure a safe area for the organization in AWS public cloud.
- Designed AWS Cloud Formation templates to create customized VPC, subnets, and NAT to ensure successful deployment of Web applications and database templates.
- Involved in creating an automated pipeline for CI/CD using Git as version control.
- Design and setup of CI tool Bamboo to integrate SCM tool Git and automated the build process. Working with the Build Verification team to make sure builds are delivered within deadlines.
- Configured AWS Multi-Factor Authentication in IAM to implement 2-step authentication of user's access using Google Authenticator and AWS Virtual MFA.
- Experience in working on cloud AWS, cloud EC2, S3, RDS, Load Balancer, and Auto Scaling with AWS command line interface.
- Created scripts in Python that integrated with Amazon API to control instance operations.
- Coordinated/assisted developers with establishing and applying appropriate branching and labeling naming conventions using GIT source control.

Environment: React Js, HTML5, CSS3, JavaScript, jQuery, AJAX, JSON, TypeScript, Jenkins, GIT, SVN, Rest, log4j, Hudson, Spring MVC, Spring boot, Apache Kafka, Docker, JAX-RS, Junit, Mockito, Oracle, SOAPUI, Postman, Ec2, AWS lambda, Hibernate, Oracle 12, MongoDB, Terraform, Bamboo.

 **Sr. Java Full Stack Developer**
Centene Corporation

January 2018 to February 2020
Saint Louis, Missouri

Responsibilities:

- Understand and adopt Microservices architecture to gradually replace a core monolithic application with Microservices.
- Actively participated in the Analysis, Design, Development, and Testing phases of various modules.
- Expertise in spring-based microservices, and enabled discovery using Eureka Server.
- Designed and developed RESTful Web Services using Spring Boot.
- Used Node.js for creating RESTful APIs or GraphQL APIs, handling data requests, and managing data persistence.
- Developed server-side application to interact with the database using Spring Boot and Hibernate.
- Developed RESTful Services with Java using JAX-RS, Jersey, and Spring Boot.
- Coding for consuming the REST APIs, getting JSON responses, and parsing them to get the required formats.
- Created internal diagnostic tools using Golang and Angular 14 in order to assist with customer issues.
- Golang and Java 11 were used as a backend REST service while Angular 14 was used for the user interface.

- Enhanced application performance by Angular 14 component-based development in view of Angular framework transitions.
- Developed modules using Core Java APIs, Collections, Java 1.8 (Streams), Jordan API(Dates), Multi-threading, Exception Handling, Generics, Enums, Java I/O, and object-oriented design patterns.
- Used Hibernate and Mark Logic, writing service methods, and SQL queries to interact with the MySQL DBMS.
- Managed Eureka Client, Eureka Server, Eureka Instance, and Eureka Service through Spring Boot.
- Expertise in implementing Microservices Architecture using Boot Application, Eureka Discovery Service, Eureka Client, REST, SOAP, JPA, and Hibernate.
- Deployed the application on Amazon Web Services (AWS).
- Used Amazon Cloud Watch to monitor AWS services & Amazon Cloud Watch logs to monitor the application.
- Installed application on AWS EC2 instances and configured the storage on S3 buckets.
- Co-ordinated with the QA lead for the development of test plan, Test management, and defect management.
- Hands-on experience in using message brokers such as ActiveMQ and RabbitMQ.
- Integrating various Version control tools, build tools, and deployment methodologies into Jenkins to create an end to end orchestration build cycles.
- Used Jenkins to execute the Maven project as well as to build the version system tool.
- Maintained and managed cloud & test environments and automation for QA, Product Management, and Product Support.
- Developed JUnit test cases for the Persistence layer and Business layer to perform unit-level testing.
- Configured Log4j for adding the debugging information in the code base.
- Used SVN for version control.
- Involved in Agile stand-up meetings throughout the project with team members on a day-to-day basis for the update on project status using JIRA and HP ALM.

Environment: Java 11.0, Spring 4, Hibernate 4.2, Spring Batch, Spring Boot, JPA, JavaScript, Angular, HTML5, CSS3, Eclipse, Drools, JBPM, MySQL, ILOG, log4j, Junit, AWS, TestNG, TypeScript, Selenium, Easy Mock, RabbitMQ, XML, Web Services, SOAP UI.

 **Sr. Java Developer**
Delta Air Lines

February 2016 to December 2017
San Jose, California

Responsibilities:

- Involved in all phases of SDLC including Requirements Collection, Design & Analysis of the Customer Specifications, and development of the application for dynamic user experience.
- Interact with SCRUM team developers, programmers, testers, product owners, and stakeholders to deliver the right value to REACT the project at the end of each sprint.
- Developed the application both for web and mobile using HTML, CSS3, EcmaScript6, jQuery, Ajax, Angular 8, TypeScript, Bootstrap, and Node JS.
- Moved existing Angular JS controllers to Angular 8 components for better performance and to achieve lazy loading. Angular 8 is the framework for Mobile and desktop apps.
- Built applications using React.JS which allowed us to render pages on both the client and server using the same codebase.
- Used JSON for data transfers between the front end and back end.
- Experienced in J2EE environment extensively in Model View Controller (MVC) architecture for development using Springs, Struts, and JS.
- Developed J2EE components using Eclipse IDE.
- Used Spring Validation framework to implement the server-side validations and used Angular JS to get the data from the server asynchronously by using JSON objects.
- Creating and documenting branching strategies for new team projects in TFS 2012.
- Used Spring framework for IOC (Inverse of Control), and managed other Java Beans and Spring Boot to build Microservices.

- Implemented DAOs, and entities using Hibernate API and Java EE components using Spring MVC, Spring transactions, and Spring security modules.
- Implemented REST-based Web services for various crud operations.
- Prepared swagger document to the REST APIs using spring fox.
- Involved in creating MongoDB collections and documents and developed Mongoose Schema objects to perform CRUD operations.
- Designed, built, and deployed a multitude of applications utilizing several AWS stacks including S3, RDS, and Elastic Bean Stack.
- Developed multiple POCs to create an interface between Backend to Frontend by using MongoDB and Node.JS.
- Wrote SQL queries for Oracle database and analyzed the stored procedures, functions, and triggers.
- Created RESTFUL Web Services to serve data to the front-end application in JSON format.
- Used GIT for version control and JIRA for bug tracking.

Environment: JAVA/J2EE, Microservices, React, Angular, HTML5, CSS3, XML, JSON, X-Path, XML DOM, AJAX, JavaScript, jQuery, Bootstrap, Agile methodology, REST, IDE, GitHub, Putty.

 **Java Developer**
AirIndia

July 2014 to December 2015

Responsibilities:

- Involved in the development of the application using J2EE.
- Implemented user and Client-Side validation using JavaScript.
- Developed UI pages integrated with the business layer.
- Used Singleton and DAO design patterns for implementing enterprise modules.
- Used Eclipse for the development of source code.
- Used Oracle as a database and was Involved in the code development for retrieving the data from interfacing auto parts system using SQL statements.
- Used JDBC for the connection with databases.
- Integrated Maven with SVN to manage and deploy project-related tags.
- Involved in all phases of SDLC for the project.
- Performed Use case design and object modeling.
- Involved in daily scrum meetings and worked on the sprint tasks in Agile Scrum development.

Environment: Core Java, JDBC, Struts, MVC, Maven, SVN, Java Script, Singleton, DAO, Eclipse, Oracle, SQL, and Agile.

 **Java Developer**
Indo-American Cancer Hospital

May 2012 to June 2014

Responsibilities:

- Designed the applications using OOAD.
- Wrote stored procedures using SQL for data retrieval from different tables.
- Worked extensively on bug fixes on the server side and made cosmetic changes on the UI side.
- Part of performance tuning team and implemented caching mechanism and other changes.
- Recreated the system architecture diagram and created numerous new class and sequence diagrams.
- Created combined deployment descriptors using XML for all the session and entity beans.
- Developed the Login screen so that only authorized and authenticated administrators can access the application.
- Developed various activities like transaction history, and search products that enable users to understand the system efficiently.
- Configured Oracle connection pool, which is included in the Oracle JDBC driver JAR file, to allow concurrent access to the database and optimize performance.

- Involved in preparing the Documentation of the project to understand the system efficiently.

Environment: Java, JSP, Servlets, JDBC, JavaScript, HTML, Apache Tomcat Server, Oracle 8, SQL, XML.

TECHNICAL SKILLS SET

Languages: C, C++, Java (1.6, 1.7, 1.8), SQL, PL/SQL, Shell Scripting Enterprise Java Servlet, JSP, JDBC, JSTL, Data structures.

Mark-up/XML /UI Technologies: HTML, HTML5, XSLT, JavaScript, Pojo, CSS, CSS3, XML, XSD, AJAX, jQuery, JSON, Angular 2, Angular 4, Angular 8, Angular 11, Angular 14, Node.js, React JS, Next.js

Tools & Framework: Struts, Spring Core (IOC), Hibernate, JPA, Spring MVC, Spring AOP, Spring Data (Spring JDBC, Spring JPA), Spring Boot, Spring Web Flux, Spring Batch, Spring Security, and Spring Cloud.

Services: Web services Microservices, SOA Architecture, SOAP, RESTful, JAX-RS JAX-WS, Jersey

Middleware Technologies: JMS, RabbitMQ, Kafka, Spring AMQP, Spring Integration

Cloud Platforms: AWS (EC2, EBS, RDS, Lambda), GCP.

Web/App Servers/Containers: WebSphere, Apache, Tomcat, JBoss EAP, WebLogic, and Docker.

Databases: IBM DB2, Oracle, PostgreSQL, Apache Cassandra, NoSQL MongoDB

Development Tools: Eclipse, Spring Tool Suite (STS), IntelliJ

Testing Tools/ Frameworks: SoapUI, Rest Client, JUnit, Mockito, Jasmine, Karma, Selenium, Cucumber,

Version Control Tools: GitLab, GitHub, Bitbucket.

Build-Automation Tools: (CI)/Issue Tracking Tools Maven, Gradle, Apache ANT, Jenkins, JIRA.

Design Patterns: MVC, Factory, Front Controller, Singleton, Observer and DAO patterns