

# MONALISA PRADHAN

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## JAVA FULL STACK DEVELOPER, MICROSERVICES ARCHITECT & KUBERNETES DEVELOPER

Hyderabad, India

- Professional with 14+ years of experience in various **Java/j2EE** technologies including **Microservices, Kubernetes, AWS, Angular**, PCF spring **Springboot** under different projects with domains like finance, insurance, healthcare.
- Extensively experienced in designing, developing and maintaining the cloud web based and the business applications using **Java8, Spring, Spring Boot, Angular, Oracle, MongoDB, Drools Engine, Netflix OSS** and proficient in all aspects of system architecture, including designing and implementing large, scalable, distributed systems.
- Proven ability to solve complex problems with limited resources, on-time, and within budget. Retained critical clients in high pressure and complex situations by identifying and creating unique solutions, thereby maintaining revenue. Industry-leading blend of cutting-edge **Kubernetes Deployments, AWS Cloud, OpenShift** and system integration.
- Experience in implementing the Spring Hystrix, Spring Config Server, Spring **Cloud modules to deploy services on Hybrid Cloud environment**.
- Designed and developed the REST based Microservices using the Spring Boot, Spring Data with JPA (Java Persistence API) and deployed Microservices onto Docker.
- Solid Experience in creating a **Kubernetes Clusters in OpenShift and deploying a Docker Image on top of Kubernetes Cluster**.
- Expertise in using Angular directives, Controllers, Filters, Services, Templates, Events and Injectors.
- Designed **AWS lambda function in Java and Python** and integrated with AWS API Gateway. Worked with CloudWatch for AWS lambda logs analysis.
- Basic knowledge in **AWS services like VPC, EC2, S3, Load Balancers, IAM, and AWS Lambda & API Gateway**.
- Expertise in using **React JS components, Forms, Events, Keys, Router, Animations and Flux** concept
- Experience with creating script for data modeling and data import and export. Extensive experience in deploying, managing, and developing MongoDB clusters. Experience in creating JavaScript for using DML operation with **MongoDB**.
- Proficient in **SQL, PL/SQL** developed **StoredProcedures**, Triggers, Functions and Packages besides writing DDL, DML and Transaction queries with development tools like **TOAD** and Rapid **SQL**.
- Knowledge and experience in **XML and XML parsers, SOAP-based web services, RESTful Web Services, UML**.

- Proficient in UI design, developed Front End using **Angular 8, JSP, HTML5, CSS3, JavaScript, Ajax, jQuery, AngularJS.**
- Experienced in the **MVC Architecture using Struts & Spring Frameworks. JMS, JNDI and Hibernate.**
- Experience in **JAVA8** features like Parallel Streams, Lambdas, functional interfaces and filters.
- Experience in Implementing **CI/CD pipelines** with the integrated unit tests, code coverage, code quality.
- Experience in implementing the security on microservices using Spring Boot Auth server which generated **JWT tokens as OAUTH2** mechanism.
- Experience in creating the Splunk indexes and creating dashboards for the apps which are enabled with the Splunk agents on docker containers.
- Hands on experience with Core Java with Multithreading, Concurrency, File Handling I/O, **Generics, Data Structures and Collections, Garbage Collection.**

## TECHNICAL SKILLS

**Languages:** Java/J2EE, TypeScript, Python, Groovy, Shell Script

**Database:** Oracle, NoSQL (MongoDB, DynamoDB)

**Cloud Technologies:** OpenShift, Amazon Web Services (AWS), Cloud Foundry,

**Security:** Spring Security, OAuth, Active Directory, LDAP, SSL, SAML

**Technologies and Tools:** Angular, JavaScript, JSP, jQuery, HTML, CSS3, JAVA 1.8, J2EE, Flowable, Drools, Mybatis, Spring batch, Spring Boot, Spring Cloud, REST API, SOAP, Netflix Hystrix, Swagger, Redis, It/Bitbucket, Jenkins, JIRA/Agile, MySQL, Mongo dB, IntelliJ IDEA

**Container:** Docker, Kubernetes

**Source Code Management:** GIT, Bitbucket

**Web/Application Servers:** Apache Tomcat, WebLogic, Oracle Application Server, NGINX

## WORK EXPERIENCE

### Kubernetes-Microservices Lead Developer

*Project Name: Magellan Reporting*

*PNC bank, Pittsburgh*

*CGI Inc.*

*Feb 2020 to Till-date*

#### Roles & responsibilities:

- Design an **integrated solutions for the Open text Magellan Reporting** with Microservices application.
- Responsible for creating efficient design and developing User Interaction screens using **Angular 8, CSS, bootstrap and Angular Material.**
- Experience with **creating custom directives, decorators, and services** to interface with both restful and SOA services.

- Implemented **Angular Router to enable navigation** from one view to the next as customer performs application tasks.
- Developed new libraries with spring boot and pivotal cloud foundry Working on implementing new Magellan Reporting solution; Spring Boot, OpenShift, microservices. Member of group developing containerized applications; **Docker, Spring Boot, Kubernetes, OpenShift**. Deployed Microservices to IBM Bluemix Cloud Foundry and later migrated to **OpenShift**.
- Implemented **login and security** modules.
- Integrate **drools engine** for various business logic
- Integrate **MongoDB with Audit and Monitoring API and deployed in Kubernetes**.
- Creation, configuration and monitoring Shards sets. Analysis of the data to be shared, choosing a shard Key to distribute data evenly. **Architecture and Capacity planning for MongoDB clusters**. Implemented scripts for mongo DB import, export, dump and restore
- Transformed **legacy Actuate based reporting application into a suite of cloud hosted Microservices using Spring Boot**, and laid the groundwork for x10 traffic scale
- Create and execute unit test cases (both automated and manual) to measure 80% code coverage.
- Research and become the **Subject Matter Expert (SME)** on the interaction of the Service with source systems as well as interaction with the consumers (business users)
- Work with application management to provide tier 3 support for production issues
- Experience in developing batch processes in Java and **Java Spring batch** framework
- Code review and merge thru Git/Bitbucket and continuous deployment using Jenkins.

### **Lead Engineer-Microservices Developer**

*Project Name: Information Reporting (IR)*

*PNC bank, Pittsburgh*

*CGI Inc.*

*Jan 2015 to Feb 2020*

#### **Roles & responsibilities:**

- Integrated **Flowable business process engine and deployed** multiple process instances.
- Experience in developing Cloud computing microservices using **Spring Boot, Spring Cloud and Netflix based Eureka Discovery, Eureka Server, Zuul and Hystrix**.
- Involved in RESTful APIs/ Microservices design and developing for Profile, Cart & Checkout APIs in Spring framework.
- Experienced in leveraging **API Gateway for runtime governance and security of Microservices**.
- Be involved in the complete software development life cycle, including working with the production operations team to prepare and execute releases
- Handle offshore team and Evaluate test results and collaborate with the development team maintain team SharePoint site

- Mentor junior developers to ensure they understand and properly utilize optimal development methodologies (Agile)
- Involved in Unit testing and Integration testing.
- Experience in developing batch processes in Java and Java **Spring batch** framework
- Code review and merge through **Git/Bitbucket** and continuous deployment using Jenkins.
- Managed tasks and acted as point of contact for offshore team coordination
- Was responsible to communicate with End client to support the application and analyze the issue and fixed the issue.
- Ensuring that technical software development process is followed on the project, familiar with industry best practices for agile software development

### **Senior Software Engineer-Full Stack Java Development**

*Project Name: Fund Transfer (Wire Stabilization)/Treasury Management*

*PNC bank, Pittsburgh,*

*CGI Inc.*

*Jun 2011 to Jan 2015*

#### **Roles & responsibilities:**

- Analyzed and designed a scalable system based on **Object Oriented Concepts various J2EE design** patterns.
- Developed java scripts for all client-side validation and developed User Interface (GUI) using **JSP, CSS, JSTL, and XSL**.
- Used JSTL tags for **communicating between controller and JSP**.
- Design and implementing **Model view controller (MVC)** architecture using spring framework.
- Wrote **Hibernate classes, DAO's to retrieve & store data**, configured hibernate files.
- Jersey implementation of JAX-RS is utilized to develop RESTful Web services.
- Consumed **RESTful Web services (JAX-RS)** provided by different vendor to use for Address verification and validation.
- Involved in creating and extracting data from database using SQL Queries, PL/SQL Stored procedures, triggers, and packages on Oracle database

### **Senior Software Engineer-Full Stack Java Development**

*Project Name: ICD 10 Neutralizer*

*Arkansas BlueCross & BlueShield, Little Rocky, AR*

*Tetra Soft Inc.*

*Oct 2010 to Jun 2011*

#### **Roles & responsibilities:**

- Use Java technologies to build web applications for client-server environments.
- Used **JavaScript to develop interactive user interface (UIs)** that provide user experiences that exceeded client expectation and met key **performance indicators (KPIs)**

- Good working Experience in client-side development with **HTML, XHTML, CSS, JavaScript, jQuery and AJAX**
- Document the work you do, especially APIs that you create
- Focus on innovating new and better ways to create solutions that add value and amaze the end user, with a penchant for simple elegant design in every aspect from data structures to code to UI and systems architecture
- Work with platform architects on software and system optimizations, helping to identify and remove potential performance bottlenecks
- The focus is on solving business problems via technology in a fast-changing environment: time to market is critical, but we cannot compromise on quality or performance
- Design and **develop microservice based application** which adheres to cloud development principle
- Collaborate with **front-end and mobile app development** teams on user-facing features and services.

### **Software Engineer-SDET**

*Project Name: Connect Vendor (IMetris)*

*Imetris, USA*

*ESD Technology*

*Feb 2010 to Sep 2010*

#### **Roles & responsibilities:**

- Developing **UI (JSP) components using JSF.**
- Excellent programming experience in **Java 1.5/1.6, JDBC, Servlets, JSP**
- Involved in Knowledge Management related activities during KT transition of the project
- Involved in **Unit testing.**
- Internal Code review and optimization and implement **Util classes.**
- Generated User interface Templates using **JSP, HTML.**
- Developed the Java Code using Eclipse as IDE.
- Extensively involved in gathering requirements, preparing requirements documents
- Involved in the development of dynamic Webpages using JSP.

### **Software Engineer**

*Project Name: TD-Canada, Canada*

*TD-Canada Bank*

*Ambletek*

*Sep 2009 to Feb 2010*

#### **Roles & responsibilities:**

- Developing new functionality, **including both back-end and front-end parts** (JSP, Finance center)
- Developing **UI (JSP)** components using Capital Stream
- Used EJB, Struts, and Hibernate to develop the application
- Wrote **JavaScript code, CSS code and used jQuery**
- Used Eclipse IDE for application development and deployment

- Used Apache Tomcat server 6.0
- Used Hibernate for Object relational mapping of the database structure created in Oracle
- Used **SOAP Technology for exchanging the XML application using HTTP**
- Involved in designing of front-end pages for the presentation of data on the View layer in using Struts MVC architecture

### **Software Engineer- Trainee**

#### **Cosmo Quest Info Creation Solution**

*Bhubaneswar*

*Feb 2007 to Sep 2009*

#### **Roles & responsibilities:**

- Worked on enhancements using **JSP, Struts, database** stored procedures and wrote **SQL queries**.
- Logged the application using log4j for easier debug and maintenance.
- Implemented alerts SMS, E-mail.
- Participated in the SDLC lifecycle of a client implementation such as reviewing/creating functional specifications, System Configuration & Design, testing, Documenting and training end users.

### **ACADEMIC QUALIFICATIONS**

- Master of Science in Information Technology
  - **Kalinga University 2013-2015**
- Advanced Diploma in Computer Application(A-Level)
  - **National Institute of Electronics & Information Technology 2004-2008**
- Bachelor of Technology
  - **Berhampur University 2000-2004**