**MANIMARAN PETHIYAN**

**Java Lead**

**Email**: [Roxon@theappliedthought.com](mailto:Roxon@theappliedthought.com) **Mobile**: 754-946-4873

**Professional Summary:**

* I have over 15+ years of experience in IT in Java Technology. During my career, I have worked on Requirement analysis, design, coding and test support, application implementation, quality reviews and testing. I have worked with clients like FedEx, HCSC, HHSC, US BANK, FIRST DATA, DHL.
* Knowledge of the complete software development life cycle (SDLC), including interface design, client/server implementation, Internet (Web) application development, and object-oriented methodology testing.
* Worked with Core Java, Java Collection, JDBC, Spring, Spring Boot, Hibernate, and REST Web Services in the design and development of J2EE applications.
* Knowledge of enterprise server integration, performance optimization, disaster recovery, upgrading, migration, configuration, troubleshooting, administration, and fine-tuning.
* Oracle, Apache Web Server, Tomcat, WebSphere Application Servers, and Web Logic Server installation and configuration.
* Using various technologies like Splunk, AppDynamics, and Kibana, I prepared several monitoring analyses relevant to various apps to examine the project demands and usage worldwide.
* Well versed with Software Development Life Cycle, Agile Methodologies.
* Strengths include strong customer interface and problem-solving skills, estimations, requirement analysis, designing, programming and validations.
* An extremely hands-on engineer, developer, and architect, and is adept at leveraging computer science and engineering fundamentals to deliver resilient and scalable solutions that self-heal.
* Good team player, enthusiastic with an ability to learn new tools and software quickly as required.

**Technical Competencies**

|  |  |
| --- | --- |
| **Programming Languages** | C, C++, Java |
| **J2EE** | JSP, Servlets, Web services, JDBC, JMS |
| **Web Technologies** | HTML, Java Script, AJAX, NodeJS, Angular, Backbone JS, React JS |
| **Frame works** | Struts, Spring, Hibernate, Spring Boot |
| **Databases** | Oracle 9i, Oracle 10g/ 11g, SQL, Mongo DB, Dynamo DB |
| **DevOps /Infrastructure Stack** | Jenkins, Maven, Jira |
| **Cloud Stack** | Pivotal Cloud Foundry (PCF), AWS, AWS S3 |
| **Monitoring Tools** | Splunk, Zena, New Relic, Elastic search, Kibana, Service Now |
| **Version Control Systems** | CVS, SVN, MS Visual Source Safe (VSS), GIT, HITHUB, GitLab |
| **Build Tools** | Maven, Gradle, Sonar, Nexus, and Ant |
| **App & Web Servers** | IBM WebSphere Application Server, IBM WebSphere Portal Server, BEA Web logic, Tomcat |
| **Domain** | Healthcare, Banking, Logistics |
| **Operating Systems** | Windows, Unix, Linux |

**Education**

* **M.C.A** (Master of Computer Application)., Alagappa University, Karaikudi, India
* **B.Sc.** (Bachelor of Science)., Bharathidasan University., Tiruchirappalli, India

**Certifications**

* Scrum Alliance’s Certified Scrum Master (**CSM**)
* Certified Professional in Health care concepts (AHM250)
* Certified Professional in ITIL v3 foundation
* Completed certifications: Agile practices, Software quality, Working with J2EE design patterns and Scrum methodology.
* Certified Professional in C & C++

**Professional Experience**

|  |  |
| --- | --- |
| **Project Title:** Multi Stream Engagement  **Client:** FedEx**,** TN  **Role:** Tech Lead/Onsite Lead | **Mar 2022 to Present** |

**Job Description:**

Rating Modernization is used to completely modernize FXF LTL/FTL Rating system, Receiving the Rating Event Data in Rules Orchestrator from Gateway and it is checking whether ratable. Base Rate Service, Measure Data Service (MDS) and Dynamic Fuel Surcharge Service. Generates "inferences" based on the data and business logic, sends the final Rating Event to the Rating Path Orchestrator. All business logic is handled through Policy Grids.

Streamlining the batch processes by introducing multiple research items to the framework for z-Native Batch programs after converted from Mainframe to Distributed side (Java). Process of build/setting up and executing the FXF z-Native Batch Jobs in distributed environment. Pull the code delivered by Modern System and build the code after modifying the property files/Config files/ java files and build the converted batch module using Maven/Gradle and provide the step to execute/run the converted batch job. The batch Job will be executed and verified whether the batch job code is running successfully by validating the result with help of Mainframe team.

**Responsibilities:**

* Prepared the design document for Measure Data Service and request, response mappings to handle the MDS module.
* Implemented Policy Grid in Rules Orchestrator based on the rules created in Policy Grid Administrator (PGA).
* Created the design document/Sequence diagram for MDS and for Centralize Add inferences.
* Developed and deployed a web application using AWS services such as S3.
* Conducted various Proof of Concepts (POCs) using AWS (SQS, EC2 Instances, Aurora, Terraform) and Oracle Cloud, experimenting with technologies like Ansible, Spring Boot, MQ, JMS, Kafka to assess their viability for implementation.
* Designed and developed RESTful APIs using AWS API Gateway.
* Built S3 buckets and managed policies for S3 buckets and used S3 buckets for storage and backup on AWS.
* Responsible for collaborating on and creating products with our designers, developers, and clients on communication.
* Developed email/fax utility and integrated with n number of batch jobs to send the email/fax to relevant stake holders.
* Successfully implemented new services using AWS, utilizing EC2 Instances, SQS, RDS, S3, EBS, Secret Manager, and other AWS offerings to enhance system scalability and security.
* Involved on cup server setup in all the environments and performance testing for email/fax jobs in PROD.
* Prepared the detail document about email fax integration and shared with across z-Native Batch and z-Native Online teams.
* Created pipe jobs scripts using Unix for start, stop and status of the PIPE jobs which is being used by entire batch team.
* Have worked on One Automation setup to create the jobs, Schedules, Variables and Workflows for automate the batch and pipe jobs.
* Involved in data comparison and file comparison after migration through comparison tool utility.
* Ensuring that software is developed in accordance with best practices, such as secure coding principles, coding standards, and testing methodologies.

|  |  |
| --- | --- |
| **Project Title:** HCSC AMS SteadyState  **Client:** HCSC, IL  **Role:** Sr. Developer - Java | **Mar 2016 to Mar 2022** |

**Job Description:**

There are many applications used in this project like, Aerial, Eloquence, GHCSA, Guiding Care, ARIS for handling the members and providers data. ME Decision Aerial application is a collaborative health care management platform for case management, disease management and utilization management. Analyzes and Identifies High Risk Patients. The main use of the Aerial application is for Pre-authorization purpose, Wellness program. User can manage authorization and preauthorization request for members on medical procedures. Aerial uses external application to send letters for members based on programs they are enrolled. Once user requests are created, they are extracted out of Aerial and send to client systems to check authorization match with client data. Aerial gets the requests through IVR with network logic where it determines the inpatient or outpatient based on the provider details. Also, Aerial gets requests from SUM. Interaction management is the function within the AERIAL which interacts with the members.

**Responsibilities:**

* Primarily involved in discovery sessions with clients, interacted with external stake holders to understand the applications and helped to take care for support between HCSC and external vendors.
* Innovative individual with commendable experience in developing User Interface using Spring boot, Angular JS, React JS, Backbone JS, HTML, CSS, JavaScript, Kibana.
* Knowledge of utilizing cloud technologies including Pivotal Cloud Foundry (**PCF**) by using Clinical Channel API, Health Summary, MCDC and Rx Letters Communication UI applications as part of support work in EMPCO portfolio in HCSC.
* Responsible for troubleshooting cloud infrastructure, systems, network, and application stacks  
  Work with fellow operations engineers and development teams on complex problems and make decisions and recommendations about systems improvements after analyzing possible courses of action.
* Work collaboratively with other engineering team members to deploy software and maintain and operate our systems including on-premises and hybrid cloud platforms.
* Interacted with various upstream and downstream application team members during issues, incidents and defect fixing of projects. Involved in grooming and planning sessions of Agile.
* Responsible for the review and quality of deliverables for enhancements – Technical specification, Unit Test plan, Unit test log and coding.
* Perform production support activities which involve assignment of issues, analysis to the root cause and resolution within the specified SLAs impacting the application.
* Preparation of weekly Governance Deck, Weekly and Monthly Status Reports shared with leadership and customer counterparts.

|  |  |
| --- | --- |
| **Project Title:** HHSC – BIP Portal CoE  **Client:** HHSC, TX  **Role:** Sr. Developer - Java | **May 2014 to Mar 2016** |

**Job Description:**

The BIP (Balance Incentive Program) Portal project deals with the portal framework development. Federal law established the BIP, which increases the Federal Matching Assistance Percentage (FMAP) for Medicaid community Long-term Services and Supports (LTSS) to participating in exchange for states making certain structural reforms to increase funding and access to Medicaid community based LTSS. Texas is committed to fulfilling the BIP objectives of helping individuals who need LTSS live healthy, independent lives in their homes and communities and improving quality of care while reducing costs by diverting or relocating individuals from institutional to community-based settings.

**Responsibilities:**

* Developed Framework Portlets using JSR 286 specification and deployed on WebSphere Portal Server 8 and WebSphere Application Server 8.5.
* Developed the POC to reduce the time while loading the data from the DB.
* Involved in creating the pages, deploying, configuring, and assigning the permissions to the Portlets on WebSphere Portal server.
* Installation and Configuration of WebSphere Portal 8, WebSphere Application Server 8.0/8.5
* Developed Web pages using JSP/Html/JavaScript.
* Created WCM components Authoring templates, Presentation templates, Workflows.
* Participated in design reviews and code walkthroughs.
* Contributed to the architecture of the project, outlining sequence diagrams before providing implementation.

|  |  |
| --- | --- |
| **Project Title:** FSMS  **Client:** Ford Motor Company, MI  **Role:** Developer-Java | **Mar 2012 to Apr 2013** |

**Job Description:**

Ford Standard Management System is the database containing the current requirements found in the

Ford Product Engineering Standards.  Vehicle program teams use this database to establish the programs design

requirements in the Ford Design Verification System (FDVS). The Generic Author is responsible for creating,

modifying, updating and maintaining the content of their requirements.

**Responsibilities:**

* Technical design, development for use cases, getting sign-off from business, Customization and
* Integration in search and reports portal.
* Modifying and correcting the existing Business logics and front-end screens based on the user
* Requirement.
* Used JSP for presentation layer, developed high performance object/relational persistence and query
* service for entire application utilizing Hibernate.
* Create Report portal pages items and customizing the toolbar and menu items and integration of the
* same with java swings to populate the items with master data.
* Writing rules and conditions for workflows using ITK.
* Customizing Team center Data Model (Business objects, Classes and its Attributes) using Business
* Modeler IDE.
* Rich client customization in FSMS search and reports portal using Java APIs and Java.
* Data alignment between different environments (DEV, QA and PROD) as per customer requirements.

|  |  |
| --- | --- |
| **Project Title:** First Data e-Cust Services  **Client:** First Data, GA  **Role:** Developer-Java | **Oct 2009 to Feb 2012** |

**Job Description:**

First Data maintains credit and debit card, stored-value, commercial, retail, private label and oil card accounts for millions of cardholders around the world. First Data supports card issuer clients through the lifecycle of a card account by helping to acquire new accounts, reducing risk, improving profitability and most important, supporting our clients' growing e-commerce needs through new Internet capabilities and strategic partnerships with established technology leaders.

**Responsibilities:**

* Involved in Analysis, Design, Build, and Unit Testing Phases and implementation of the project. (Agile/Scrum model).
* Played a key role in a module from design phase to till production.
* Involved in the developing Functional Specification Document, Design Document, test case template documents and unit test strategy.
* In addition to the development activities, involved in code review and process related activities.
* Outlined the domain objects and schema for the relational database (MySQL) and used Hibernate for persistence.

|  |  |
| --- | --- |
| **Project Title:** Fleet Management System  **Client:** DHL, Germany  **Role:** Developer-Java | **Feb 2007 to Sep 2009** |

**Job Description:**

FMS 1.0 has been developed in J2EE platform and is aimed at improving user productivity, scalability, flexibility of internationalization of the application and reliability along with enhanced functions than the current system. This project handles the maintenance and allocation of vehicles for the organization. This project would cater the needs of creating invoice, purchasing, billing and management of the procured vehicle for the organization.

**Responsibilities:**

* Involved in Analysis, Design, Build, and Unit testing Phases and implementation of the project.
* Development and unit testing of the modules
* Involved in design and software configuration management.
* Developed Stored procedures using PL/SQL
* Check-In and Check-Out to SVN (commit and update)
* Provided support for changes, bug-fixes and new features.
* Outlined the domain objects and schema for the relational database (MySQL) and used Hibernate for persistence.
* Utilized on-premises code review to provide structure for the development process.
* Configured the integration of Spring and Hibernate
* Outlined REST endpoints and provided an implementation using Spring Web MVC
* Implemented the DAO, service, and web controller layers using Hibernate, and Spring Web MVC
* Provided implementations for the presentation layer using JSP, CSS Bootstrap, JSTL, JSP EL, Spring Validation
* Performed a feasibility study that involved thorough knowledge of computing.
* Developed android applications utilizing the accelerometer API.
* Audited code for performance optimizations.