# SURIYA PRAKHASH DEENADAYALAN

**LEAD DEVELOPER** 

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## **PERSONAL SUMMARY**

- THIRTEEN years of progressive experience as a Lead/Senior software developer with the strong background and working knowledge in all the phases of software development life cycle with strong analytical, programming skills and having solid functional experience in the development, implementation and the maintenance of complex systems.
- **Designed**, **developed**, and **implemented software solutions** for high visibility, high impact projects; solved **technical problems** in a growing **business environment**.
- Strong hands on experience in designing, developing and supporting highly available microservices, security frameworks, creating archetypes, distributed applications, messaging systems, web services and multithreaded applications with technologies such as core and advanced Java technologies, J2EE, JSP, Servlets, REST, SOAP, Spring boot, Cloud Netflix, Security, Data, Stream, Hibernate, BPMN activiti, LDAP, Kerberos, Oauth2, JDBC, JWT, XML parsers, NAS SMB, TCP, SSL, OWASP, Maven, Gradle, Velocity templates, Junit mockito, Cucumber-Gherkin, Selenium, SONAR, Checkmarx, Corbertura and working knowledge of web front end technologies like Angular, Reactredux, javaScript, node and jquery
- Experience handling large volume data from real time events and working experience with messaging systems, both on pub-sub model and producer consumer model. Kafka, Rabbit MQ(AMQP), HiveMQ (MQTT), JMS as such.
- Hands on experience in creating configurable pipeline using **Gitlab CI, Jenkins,** working experience with **Bamboo, Commander**
- Experience with Cloud (PCF, AWS Beanstalk, RedHat Openshift, Az App Services and ARO), Web and Application servers (Apache, Tomcat, JBoss, Weblogic and IBM Web Sphere 5.x) and minimal experience in using middleware tools like mulesoft with CloudHub deployments. Good experience in structural database like writing SQL queries, creating PL/SQL stored procedures, functions and nonstructured database like Mongo DB
- Expertise in Object Oriented Design (OOD) & Analysis (OOA) based on Unified Modeling Language (UML) architecture. Experience in developing Class, Sequence, flow diagrams using Smart Draw UML and Star UML.
- Strong hands-on experience in implementing Design patterns like MVC, Singleton, Template, Proxy, Lazy loading, Data Access Object, DTO, Service Façade, Delegate and Factory. Real time experience with Configuration Management tools like GIT, Accurey and SVN.
- Experience with debugging, load testing, security testing and analyzing the performance with hands
  on experience in application instrumentation and using tools like ELK, Grafana, Dynatrace,
  OpenTelemetry, JMX, JMeter, Apache BM, Gatling, JFR-JMC, JConsole, optimizing the code and
  minimalistic knowledge of penetration testing tool like Burp tool suite, NMap, Metasploit framework.
- Strong knowledge in **Scrum, Kanban, AGILE & Waterfall** methodology of **software development** with experience in **pair programming** and **TDD** along with limited working experience with **BDD**.
- Good leadership, interpersonal skills, ability to work independently and as a team player, result oriented, hard working with a **quest** and **zeal** to learn new **technologies**.

#### **EDUCATION**

B.Tech in Information Technology, Mepco Schlenk Engineering College

## **TECHNICAL SKILLS**

HARDWARE/PLATFORM Mac, Linux, Windows

LANGUAGESJava, Javascript, Typescript, PythonDATABASEMS SQL, MongoDB, My Sql, HiveSql

**TECHNOLOGIES** Microservices – Eureka, Zuul, Config server, Spring Circuit breaker using

Hystrix and Resilience4j, Admin, Ribbon, Complex distributed services - RESTful, SOAP, TCP, Servlet, Frontend - JSP, Angular, RXJS, React-redux, Javascript, JQuery, Messaging - Kafka, AMQP, JMS, MQTT, NAS SMB, HTML, XML, XSLT, Oauth2, Kerberos, SAML, Policy management, Activiti

**BPMN** 

FRAMEWORKS/LIBS Spring Boot, Cloud, Security, Batch, AI, JPA, Hibernate, Micrometer,

Log4j, Junit, Activiti BPMN, Cucumber, JAXB, SAX, DOM, JMS, Velocity,

Gatling

TOOLS IntelliJ, Spring Tool Suite, Pycharm, Eclipse, Postman, SOAPUI, Burp,

SSMS, Kibana, Grafana, Java mission console, Dynatrace, NMap, Nightcode, Visual studio code, Sublime text, MQTT FX, jconsole, Jmeter,

Gatling, Jira, Rally, Confluence

**VERSION CONTROL SYSTEM** GIT, Bitbucket, Accurev, SVN

**BUILD/CI TOOLS** Maven, Gradle, Bamboo, Gitlab CI, Jenkins, Electric commander

WEB/APP SERVERS
Apache, Tomcat, JBoss, Websphere
PCF, AWS Beanstalk, Docker, Openshift
Healthcare, Banking, Automobile

## **OPENSOURCE CONTRIBUTION**

- Pixie A PKCE generator primarily for OAuth Code flow
- Kaleido A Spring boot bean visualizer that jots down the bean's relationship structure
- mockManga A Faker client for generating real-time random mock data for performance testing
- PDFKIT An opensource JavaFX application for PDF operations based on Apache PDFBox
- <u>Dependency plugin</u> Maven Plugin to filter and write dependencies as JSON

## **AWARDS AND RECOGNITION**

- 3 times **employee of the month** award in Cognizant India
- Best innovation award 2015 Healthcare domain for Content parser
- Best project healthcare small 2015 (team award) for Care Management Application
- Gold Award 2019 Banking & Financial Services for process/productivity at Northern Trust

## **PROFESSIONAL EXPERIENCE**

## SOFTWARE ENGINEER II & III 2021 – Present

M&T BANK BUFFALO/TORONTO

Common Libraries Mar '21 - Present

Java libraries assists application teams to bootstrap quickly without adding any code and just by customizing the required functionality using properties to get started with the business functionality.

## Responsibility

- Maintain and release signoff the BOM bsp-workflow-dependencies to be used in the bsp-workflow-parent.
- Modularize the libraries and efficiently structure packages and wire beans only when enabled via properties.
- Maintain the following libraries
  - bsp-common-api Auditing, LDAP connectors, SMTP email, Jasypt encryption/decryption,
     Utilities including date formatters, id generators.
  - bsp-security-api including configuration level support for CORS, CSRF, Session Management (removed later to be stateless to move to microservices), Web Ignores, Authorization using Basic LDAP/OAuth (Support migration from Ping Fed to Azure OAuth), API Key client handler.
  - bsp-comments-api adds support CRUD comments operation and to add comments moving it to a service
  - bsp-workflow-api & bsp-activiti-api executing actions like *Creating, Completing Claiming,* Releasing and Saving tasks/tickets over just calling APIs, along with our activiti POJOs and JPA data.
  - o bsp-attachment-api for handling attachment on the app side later moved into the clientapi once the attachment service is established.
  - o bsp-clients-api this is one stop shop for the clients containing different modules based on the use like graph client, comment, attachments, etc.
  - o bsp-components-ui (Angular library) standard UI components to be used in the application

## **Environment**

Team size 4

**Tools** Java 11-21, Angular 14-18, Alfresco Activiti, Spring, Spring Kafka, Spring Data JPA, Oauth2,

Spring security, Maven, JIRA, Gitlab CI, Intellij IDEA, Postman, GitLab CI

**Model** Agile – Scrum

# Universal Standard Portal Mar '21 – Present

Portal is web-based solution that hosts different workflow application. It provides set of standard libraries and workflow libraries out of the box that assists application teams to easily and efficiently integrate their application into the Portal.

This also involves setting up new workflow applications including **Generic workflow** for handling unknow generic tickets from Kofax, **Common ticketing** as a generalized ticket demo/kick-starter application with basic features to encourage the business teams using different older workflow systems to port into the portal and to take advantage of the homegrown Portal.

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## Responsibility

- Understand the working of a standard BPMN workflow business requirement from different stakeholders
- Participate in PI planning, daily scrum, scrum of scrum, retrospective, release co-ordination calls and other agile ceremonies
- Prioritize the tasks based on the technical ask and business urgency
- Maintaining the following infrastructure apps,
  - bsp-graph-svcs
  - bsp-gateway-svcs
  - o bsp-archive-svcs
  - bsp-notification-svcs
  - bsp-kofax-svcs
  - bsp-security-svcs
- Build **Gitlab pipeline** to automate the application migration process.
- Help other application teams to seamlessly integrate their BMPN application into the Universal Standard Portal
- Support the deployments, create release notes and maintain them

#### **Environment**

Team size 4

Tools Java 11-21, Spring Boot 2.x to 3.3, AWS S3, Az Graph, REST, MS SQL, Oauth2, Spring

security, Hibernate, Angular 10-18, Maven, JIRA, Gitlab CI, Intellij IDEA, Postman, GitLab

CI, Openshift, Az App services, HELM, Gatling

Model Agile - Scrum

Kafka Cluster Apr '21-Present

Build and maintain Kafka brokers for Banking services applications. It involves testing the cluster broker version and setting up security and monitoring features.

## Responsibility

- Maintain Kafka infrastructure zookeeper and broker starting from 2.7
- Active-Passive for failover using Mirror maker 2 then to Active-Active
- Upgrade Kafka from 2.7 to 3.5 to 3.7 and to 4 (flipping to use KRaft) without any downtime for the application teams
- Test the maintainability of multiple topics to be used by different teams.
- Setup SASL/PLAIN with LDAP
- Setup MTB flavor of CMAK with basic security to manage the cluster Kafka admins
- Setup MTB flavor of AKHQ with LDAP for the application teams to monitor messages, consumers and topics based on the access.
- Support signoff and verify the deployments.

Observability Apr' 22 – Present

Work on the home-grown instrumentation lib to transfer to use Spring Boot micrometer.

## Responsibility

• Determine the standards, naming convention and setup process for a new onboarding application.

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- Common wrapper on top of the home-grown instrumentation and then on mircometer to facilitate application to ship logs, metrics and traces.
- Setup application dashboards in ELK
- Prepare the GORK filter and share with the elk team for log stash pipeline
- Track and maintain file beat changes in the application servers.
- Upgrade to ELK to use filebeat
- Support upgrade ELK on-prem to Cloud
- Migrate the instrumentation from the ELK to Dynatrace

Lien Release Research Jan '21 – Jan '22

The new workflow system is to track the process of releasing the lien based on different business conditions moving the task to the respective user queue. This is one of the child applications of the Standard Portal.

## Responsibility

- Understand the requirement form the Product owner
- Participate in daily scrum calls with information about the completed tasks, in progress tasks and blockers if any.
- Build the BPMN Activiti workflow diagram and the code to support the backend workflow
- Code the UI form page and the route handlers to handle the workflow
- Maintain the code and publish the code to the respective servers using Gitlab ci
- Support the deployments create release notes and maintain them

#### **Environment**

Team size 6

Tools Java 11, Spring Boot, Alfresco Activiti, REST, MS SQL, Oauth2, LDAP, IMAP, SMTP, Spring

security, Hibernate, Angular 10, Maven, JIRA, GitLab CI, Kafka, Intellij IDEA, Postman,

GitLab, Linux Servers, ELK

**Model** Agile - Scrum

## **Document Digitization Workflow**

Aug '21 – Jan '22

The document digitization as the name suggest is the workflow process the replacing the old school document processing and the task management process. The idea is to integrate the workflow into the Standard Portal.

## Responsibility

- Understand the requirement form the Product owner
- Participate in daily scrum calls with information about the completed tasks, in progress tasks and blockers if any.
- Build the BPMN Activiti workflow diagram and the code to support the backend workflow
- Code the **UI form page** and the **route handlers** to handle the workflow
- Maintain the code and publish the code to the respective servers using gitlab ci
- Support the deployments, create release notes and maintain them

#### **Environment**

Team size 3

Tools Java 11, Spring Boot, Alfresco Activiti, REST, MS SQL, LDAP, Spring security, Hibernate,

Angular 10, Maven, JIRA, GitLab CI, Kafka, Intellij IDEA, Postman, GitLab, Linux Servers,

ELK

**Model** Agile - Scrum

## LEAD SOFTWARE DEVELOPER 2019 – 2020

**BLUESTONE STAFFING** 

FORD MOTOR COMPANY

DEARBORN

Platform Services Jun '19 – Dec '20

Proposed, designed architecture and developed individual microservices such as **User Profile Service**, **Notification Service**, **APS Service**, **CPLEX as a service** to be used by other application teams to avoid replication.

Now, have proposed **UI design systems**, **Dev Kickstarter** as an idea which will be designed and developed in the future sprints.

# Responsibility

- Understand the existing use cases and analyze existing application to remove the common components that can be deployed as an individual container.
- Participate in daily scrum calls with information about the completed tasks, in progress tasks and blockers if any.
- Propose the solution of running the common components as a Service in PCF
- Design, Architect and develop Spring Boot application with TDD(JUnits) for all the components.
- Integrate the application with Jenkins for continuous deployment.
- **Update** the task status, blocker info or any other attachment relevant to the story in the **rally story board** on daily basis.
- Check for SONAR violation and fix them before the release.
- Maintain password policy and application integration support for all the platform applications which
  includes maintain the Github Org, Infrastructure including PCF Org and Spaces, Jenkins
- Provide technical support to other application teams to implement and to use the platform microservices

## **Environment**

**Team size** 3 + App teams

**Tools** Java 8, Spring Boot, Spring cloud, Oauth2, Rabbit MQ, MS SQL, IBM Cplex, Spring security,

Docker, Hibernate, Gradle, Rally, Jenkins, Visual studio code, GitHub

Model Agile - Kanban

SLOT Jul '20 – Dec '20

The larger OEMs (automobile manufactures) have several plants available for stamping sheet-metal plant parts such as doors, hoods and other metal surfaces. They develop plans for what to outsource and where to stamp the parts internally. This tool uses mathematical optimization to balance logistic, outsourcing and utilization costs. A user interface which allows stamping experts to adjust the model in real time to reflect different constraints and competing objectives. This allows the algorithm to efficiently seek

alternative solution while the business expert guides for nuances that may be hard to represent mathematically.

## Responsibility

- Analyze the requirement to build a system to invoke CPLEX service and load the output from in memory
- Build the CPLEX client to make use of the platform CPLEX service
- Modify existing CPLEX service design in the platform to support more requests
- Handle zero downtime artifact delivery
- Build gateway and service discovery for CPLEX to scale independently
- Optimize the design to reduce the user wait time

## **Environment**

Team size 5

**Tools** Java 8, Spring Boot, REST, MS SQL, Oauth2, Spring security, JDBC, Gradle, Rally, Jenkins,

IBM CPLEX, STS, Postman, GitHub, PCF, Openshift, Grafana

Model Agile - Scrum

Auto allocation May '20 – Jun '20

Allocating resources to workstations is a **highly complex manual process** and this process involves **allocating the labor, tools, parts** to the **workstations** efficiently. This is to assist the **GSPAS Intelligent systems for manufacturing** to integrate the **optimization model developed** by Scientists. This is a typical **event-based** mechanism to process the data on daily basis and send output back to GSPAS when **finished** or **errored out**.

## Responsibility

- Analyze and design the component and the communication protocol, contract between systems and propose the design solution to the management.
- Prepare API for GSPAS and Alteryx based on the callback mechanism to trigger the process involves ADFS for GDIA APIs, Kerberos for Hive, Basic auth for NAS, WSL cookie auth for GSPAS
- Build spring boot microservice to handle APIs and **filter data** from **hive** and post them to NAS based on **SMB** protocol.
- Consume the Alteryx output and store them in MS SQL and trigger python model thru flask REST API.
- Store the output back to the MSSQL and invoke the GSPAS callback api in case of any error or successful completion.

## **Environment**

**Team size** 3 + External teams

Tools Java 8, Spring Boot Rest, Python37, flask, MS SQL, Hive, NAS, SMB, WSL, Kerberos,

Oauth2, Spring security, JDBC, Gradle, Rally, Jenkins, Pycharm, STS, Postman, GitHub, PCF

Model Agile - Kanban

Heat treat Migration Apr '20 –May '20

The existing heat treat is **prioritizing** and **scheduling** application for the Heat treat plant workers to get their schedule based on the transmission demand, parts, furnace availability, machine part compatibility, zone preference and other parameters as such.

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The main idea of this project is to integrate this **heat treat** as a module into the **Gear scheduling application** so as to be used across the plants and to be contained, maintained into a single hood.

## Responsibility

- Understand the existing data model and design data model in MS SQL based on the model inline with the Gear manufacturing application.
- Design and propose the integration components and steps, technical resource needed and timeline to the management without breaking the existing production and seamlessly integrate the microservices into the existing Gear scheduling application.
- Worked on the building the **CPLEX as a Service integration** for **Heat treat scheduling** involves refactoring the exiting API consume CPLEX solution XML.
- Integrate the application with Jenkins for continuous deployment.
- **Update** the task status, blocker info or any other attachment relevant to the story in the **rally story board** on daily basis.
- Check for **SONAR** violation and fix them before the release

#### **Environment**

Team size 6

**Tools** Java 8, Spring Boot, Spring cloud, Oauth2, MS SQL, IBM Cplex, Spring security, Hibernate,

Gradle, Rally, Jenkins, Visual studio code, Postman, GitHub, PCF

Model Agile - Kanban

Gear Scheduling Aug '19 – Jan '20

A **web application** intended to resolve the time-consuming manual scheduling process. This application helps users to **configure parts**, **machine** and **operations**, **generate priorities** and to **schedule** the parts to their respective machines. This application is designed to be compatible with multiple departments and plants.

## Responsibility

- **Gather requirement** from the **product owner, understand** and **analyze** the existing monolith application for a department for a plant.
- Propose architectural design solution and discuss with the team for feedback
- Design and create, db and tables.
- **Design** and **built project skeleton** for the **gear mfg** and **hard machining** spring boot java microservice base code, configure Oauth 2, config server and access.
- **Design** and **build dynamic, scalable module** and **component skeleton** for the front-end angular base code.
- **Develop** the **navigation** for hard machining module pages.
- Integrated with Jenkins for continuous deployment and publish it to PCF
- Read MQTT messages from AEP deviceWISE and persist in the table for daily schedule optimization thru CPLEX as a Service microservice
- Build Generate Schedule by handling using the CPLEX wrapper and CPLEX platform API
- Participate in daily scrum calls with information about the completed tasks, in progress tasks and blockers if any.

**Environment** 

**Team size** 6 + External teams

Tools Java 8, Spring Boot, Spring cloud, Oauth 2, MS SQL, Hive MQ, Rabbit MQ, Spring

integration, Spring security, Angular 6, Hibernate, Gradle, Rally, Jenkins, Visual studio

code, GitHub, PCF

Model Agile - Scrum

Jenkins Enablement Jun '19 – Aug '19

Created configurable common **descriptive pipeline** for the application teams to build, run tests and sonar, publish, deploy the artifacts to **PCF** data centers, trigger emails and integrate with **slack**. These configurations are later **embedded to** the java and angular project creation **archetypes** for the application teams.

## Responsibility

- Understand the multiple use cases and scenario to come up with a template pattern.
- Participate in daily scrum calls with information about the completed tasks, in progress tasks and blockers if any.
- Install Jenkins in OpenShift
- Build script and test the script using a templated dummy project
- Analyze the configuration required for the application teams and integrate it with the scripts.
- Publish and maintain the scripts.
- Provide **technical support** to other application teams to implement and to use **Jenkins** in their application.

#### **Environment**

**Team size** 1 + App teams

**Tools** Jenkins, Visual Studio Code, GitHub, Gradle, PCF, Nexus

**Model** Agile - Kanban

## **ASSOCIATE, PROJECTS**

**COGNIZANT TECHNOLOGY SOLUTIONS** 

2012 - 2019

NORTHERN TRUST CHICAGO

## **Client Access Management**

Jun '18 – Jun '19

A tool to manage **client access** based on the partly existing tool. This provides a way for the client to **access** their **sponsors**, **manage** them which involves adding new user, manage existing users access, bulk access, alerts and backend data reports. This is a UI based project with **react** application along with required **java microservices** in **PCF**.

## Responsibility

- Work with the business team to understand the business requirement and eventually gather technical requirements
- Participate in daily scrum calls with information about the completed tasks, in progress tasks and blockers if any.
- Architect, design and develop java based microservices based on the requirements

- Pair program and build modules which are open for development status in the JIRA board
- Write test cases and develop the business logic based on test driven development and push the code changes on daily basis.
- Make sure the bamboo build is successful once the sonar and checkmark violation has been fixed
- Migrate the application from System to UAT for testing.
- Track the JIRA testing bugs and provide appropriate solutions.
- Involve in integration, stress, load and performance testing with the tester and prepare documentations
- Analyze the artifact and create a change request to migrate the application to PROD.

#### **Environment**

Team size 4

**Tools** Java 8, Spring Boot, Spring cloud, Oracle DB, Spring Boot admin, Spring security, Oauth2,

2way SSL, React, Redux, Saga, Selenium, Hibernate, Bamboo, JIRA, Visual studio code,

Bitbucket, Nexus

Model Agile – Kanban

# Application Security Apr '17 – May '18

Develop and maintain a **security framework** that handles the security risks listed by **OWASP** and the client's information security team to enable and provide security features to the different application based on **web services**, **web applications** and **microservices**. The framework has to support **Oauth2**, **2-way SSL** and handle other vulnerabilities. This also involves in creating a **web client** similar to postman which helps to access **APIs** that application team develops over 2-way SSL. This also involves in handling bank's **login functionality** that is based on both the **PING** and **Legacy** services.

## Responsibility

- Work with the team to understand the architecture of security framework to be implemented on the
  applications that the application team develops which is based on Weblogic, Docker and PCF Cloud
  environments
- **Develop security features** and **addons** working with **Ping Fed, Ping Access, OES** service team and other application teams to provide a generic solution for the vulnerability or issue
- Work on **Continuous Integration** setup, releasing the framework jar into the nexus repository and announce the release to other application teams
- **Document** the **framework features, archetypes** and **implementation guide** for peer developers along with the **user guide manual** for application teams to use the framework
- Support and help application teams to implement the security framework onto their applications
- Analyze and fix bugs reported by testing team and application teams

#### **Environment**

Team size 6

**Tools** Java 8 (supporting applications backward compatible till 6), Spring Boot, Kafka, Eureka,

Config Server, Spring Boot admin, Spring security, Oauth2, 2way SSL, React, Redux, Saga,

Tomcat, Docker, Bamboo, JIRA, Visual studio code, Bitbucket, Nexus

**Model** Agile - Kanban

#### EXPRESS SCRIPTS COGNIZANT CHENNAI

IBH migration Oct '16 – Mar '17

The objective of this project is to migrate the existing Power builder application into Cloud based spring application. The existing application handled users who requests for invoice enquire involving multiple careers, recreate invoice to check against the desired specification, viewing discharge summary, viewing contract summary, exporting them as pdf.

## Responsibility

- Understand the principal and the working of **existing Power builder** application. Analyze the existing application design and business rules with the PB experts and accommodating changes.
- Creating use cases, detailed design, and designing wireframes. Creating interaction and class diagram.
- Developing Cloud based application using Spring Boot, MS sql, JSP, JS, Bootstrap. Database design, writing SQL scripts. Also involved in Unit testing of the modules.
- Develop mule modules to fetch salesforce Account details transform along with the Actura data and populate the MSSQL tables.
- Deploy mule projects into CloudHub

#### **Environment**

**Team size** 5

Tools Java 7, Mule ESB, Cloud Hub, Spring Boot, AWS Beanstalk, AWS S3, REST, MVC, MS Sql,

JSP, Javascript, AJAX, XML, XSLT, PCF, Apache, Eclipse, Sublime text, GIT, Maven, Jenkins,

JUnit

Model Agile Scrum

Security remediation Feb '15 - Oct '16

To **maintain** and **enhance** the **security** of multiple application involving different web technologies by ensuring and fixing the security flaws and defects that are found during penetration testing. It also involved creation of helper jobs that were held to identify the loop holes and sometimes to replicate the issues.

## Responsibility

- Understand the vulnerabilities listed in OWASP and the client specific checklist. Ensure and test them
  with other Penetration testers and come up with the list of live infections and documenting them as
  pentest reports.
- Understand and pre-handle solutions for the vulnerabilities like XSS, Sensitive data exposure, CSRF, XEE, injections, user enumeration, broken authentication.
- Understand the work flow of existing applications in order to fix the vulnerabilities and to come up
  with the solution without affecting or breaking the existing functionality.
- Implement the desired designed solution to fix the vulnerability, test the fix, and push it to the production.
- Preparing the **design document** about the trace of vulnerability, its descriptions, functional and technical barriers, suggested alternative solutions and the actual fix implemented.

#### **Environment**

Team size 4

**Tools** Java 5,6, Burp, NMap, Datapower, Spring MVC, Spring Security, Mule, REST, Mysql, JSP,

Javascript, AJAX, XML, Apache, WAS 7, Eclipse, Sublime text, SVN, Maven, Putty, Winscp

Model Agile Scrum

CERNER COGNIZANT CHENNAI

Content parser Jul '15 - Feb '16

The actual existed process of manual **parsing** of **XML** data into client specific rule was time and resource consuming. **Proposed, designed** and **developed** the Java based content parser that generates Clara rules based on the **motive XML** input. These generated **clojure rules** are then fed into the rule engine and the rules are fired against the incoming facts.

## Responsibility

- Understand the functionality of **Clara Rule engine** and the manual process of converting the different subdivisions of **XML** to **Clojure rule**.
- Learn and understand the **Clojure dialect**, syntax notations to be used on clara.
- Creating **use cases** and detailed **design**. Creating interaction and **class diagram**. Capturing business logic in form of **Java beans**.
- Developed Java application using SAX, DOM parsers based on Binary Tree with in order traversal
- Also making sure any functionality is not impacting any existing business.

#### **Environment**

**Team size** Individual developer

**Tools** Java 7, Clojure, Velocity, SAX, DOM, JUnit, JIRA, Confluence, Rigmarole, Intellij,

Nightcode, Electric commander, Chef

**Model** Agile Scrum

## **Care Management Enhancement**

Jul '14 - Jul '15

It is a set of activities dedicated to the **enhancement** of the existing CCM application. It involved the creation of **BO reports**, **pdf exports**, support for more forms on **surveys**, information provided with the enhanced design and accessibility along with the bug fixing in the existing application.

## Responsibility

- Understand User Specification Documents/Use Cases to develop survey forms for the patients, role
  based changes and a considerable amount of changes in authorization, and also involved in the
  development of PDF reports.
- **Developed a standalone XSLT template generator application** for CCM's PDF reports generation.
- Develop Java 6 based REST services, with Spring MVC framework. Unit testing of the modules Cooperate with Team Members during concurrent developments.
- Involved in integration testing and deployment of the module as part of the overall application.

#### **Environment**

Team size 8

**Tools** Java 6, Spring MVC, REST, JMS, Tibco, Hadoop Hbase, Oozie, Jenkins, Eclipse, GIT, Maven,

Putty, JBoss, SOLR, MAPR, Spring Batch, Accurev, SONAR, Junit

Model Agile - Kanban

## NORTH SHORE MEDICAL CENTER

**COGNIZANT CHENNAI** 

E-discharge May '14 - Jul '14

E-Discharge is to electronically create, manage, and deliver discharge videos and related discharge information and instructions to patients.

E-Discharge provides an **enhanced discharge summary process** via rich user interface to the **physician** and **nurses** using a **browser-based web-based** solution. The solution provides nurses to enhance the discharge process by capturing more information using templates specific to discharge processes. The solution enables users to record videos/screen capture with picture in picture specific to each discharge using their desktop/laptop. The videos can be edited, transcoded and watermarked by the application services.

## Responsibility

- Develop Java based services using Java 1.6, J2EE, Java Beans, MVC framework, Jersey, Mongo db and my sql.
- Requirement understanding of Sprint tasks with help of Business Analyst. Creation of Class and UML
  diagrams using SmartDraw and StarUML for all modules. Responsible for design, development and
  implementation of modules.
- Implemented the critical functionalities using Spring MVC. Developed and deployed on beta, QA and production servers.
- Participate on daily Sprint standup calls to update the accomplished and commitment tasks.
- Analyzing and solving performance, transactional, multithreading and Java memory issues.

#### **Environment**

**Team size** 9

Tools Java 6, Spring MVC, MongoDB, Jersey, Hibernate, My Sql, Jenkins, Eclipse, GIT, Maven,

Putty, JBoss

Model Waterfall

## **SIEMENS HEALTHCARE**

**COGNIZANT CHENNAI** 

## **Complete Care Management**

Oct'12 - May '14

It is an overarching concept that aims to deliver the Right quality of care at Right clinically appropriate and customer acceptable frequency of intervention at the Right setting with the Right providers and at the Right cost, while improving consumer experience. It is a set of activities designed to assist **patients** and their **support systems** in managing **medical conditions** and **related psychosocial problems** more effectively, with the aims of improving patients' functional health status, enhancing the coordination of care, eliminating the duplication of services, and reducing the need for expensive medical services.

## Responsibility

- Understand **User Specification Documents/Use Cases** to implement the code for Lab Results, Medication, Problems, Personal Information sections.
- Participate on daily **Sprint** standup calls involving Hadoop, Tibco, DevOps and Functional teams to discuss on the backlogs as well as the daily to-do and the completed task assigned.
- Develop Java 6 based REST services, with Spring MVC framework, Spring AOP for logging. Develop Java Listener for consuming EMS tibco messages.
- Create a parser to covert **HL7** messages and push it to the queue.
- Unit testing of the modules Cooperate with Team Members during concurrent developments. Run
   SONAR to check for code quality violations and to fix them immediately. Unit Test the implemented

changes as per **test cases** Debug the implemented **codes** Integrate the changes in **Testing Environment**.

- Fix **reported bugs** of already implemented changes Cooperate with Team Members during concurrent **developments**.
- Involved in sanity testing and approving the application for production. Backtracking and debugging the issues logged by manual/automation testers as wells as QA to analyze and provide fix
- Developed ran and handled **batch jobs** in multiple environments including production, QA and preprod.

## **Environment**

Team size 17

Tools Java 6, Spring MVC, REST, JMS, Tibco, SAML, Hadoop Hbase, SOLR, Jenkins, Eclipse, GIT,

Maven, Putty, JBoss, SOLR, MAPR, Spring Batch, Accurev, SONAR, Junit

Model Agile Scrum