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, React-redux, 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 **non-structured 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, Accurev** 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
LANGUAGES	Java, Javascript, Typescript, Python
DATABASE	MS 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
CLOUD/CONTAINERS	PCF, AWS Beanstalk, Docker, Openshift
DOMAIN	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

- [Dependency plugin](#) – 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   **M&T BANK**
2021 – Present   **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.
    - bsp-attachment-api – for handling attachment on the app side – later moved into the client-api once the attachment service is established.
    - bsp-clients-api – this is one stop shop for the clients – containing different modules based on the use like graph client, comment, attachments, etc.
    - 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.

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 – so send/read emails using ms-graph api
    - bsp-gateway-svcs – entry point for our application
    - bsp-archive-svcs – handles filenet file archive process when triggered
    - bsp-notification-svcs – manages configuration and triggers push/email notifications
    - bsp-kofax-svcs – converts kofax xml parser to portal data to be used in different apps
    - bsp-security-svcs – handles the oauth/ldap/apikey access for all the bsp application
- 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.

- 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   **BLUESTONE STAFFING**
2019 – 2020

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.

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 pre-prod.

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