

VELMURUGAN PICHANDI

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SUMMARY

- **More than 19 years of experience in software projects from conception through implementation and maintenance**
- Worked as an **Application Architect**, Technical Lead and Developer in various diversified projects
- Experience in designing and developing enterprise applications using Java EE technologies with Servlets, JSP, JDBC 4.0, XML, JMS, EJB, JNI, Threads, RMI and JavaScript
- Frameworks with Spring (MVC, Rest, Cloud Config, Cloud Sleuth, Cloud Security, Batch, Netflix Eureka, Cloud Gateway), Hibernate, Ehcache, Quartz, JBPM, Jet-Speed, Jasper Reports, and Ember JS
- Strong knowledge in the areas of HTML/XML/XSLT authoring/designing, schema Generation
- Expert in **Performance Tuning**, modeling, creating, tuning relational databases using Oracle and MS SQL-Server
- Extensive use of design patterns such as MVC, the Gang of Four patterns ,the Core J2EE patterns
- Excellent requirement capture and analysis skills, mentoring and team leading skills

ARCHITECTURE EXPERIENCE

- **Client / Server applications**
- **Legacy Modernization**
- **Business Process Management (BPM)**
- **SOA/SaaS**
- **Micro Services**

LINE OF BUSINESS

- **Healthcare**
- **Document Management and Digital Asset Management**
- **Banking and Financial**
- **Manufacturing**

VISA STATUS

- H1B

EDUCATION

- **Master of Science in Computer Science**, College of Engineering (CEG), Anna University, Chennai, India

TECHNICAL SKILLS

Language	Java 11, XML, SQL, HTML, JavaScript
J2EE Technologies	J2EE (JSP, SERVLET, RMI, EJB, JAVAMAIL)
Frameworks	Spring(MVC, Rest, Cloud Config, Cloud Sleuth, Cloud Security, Batch, Netflix Eureka, Cloud Gateway), JMS, Web services with Apache Axis2, Ehcache, Quartz, JBPM, Jet-Speed, Jasper Reports, Ember JS, Angular JS, Spring Zuul
ORM Frameworks	Hibernate, Eclipse Link
Application Servers	IBM Websphere 8.5, JBoss EAP 7.0, Tomcat 7.0
Web Servers	Apache, IIS
Scripting Language	Java Script, JSON
Development Tools	Eclipse, IntelliJ
Source Control	SVN, GIT
Database	Oracle 12c, SQL Server 2008, MySQL
Tools	IBM Heap Analyzer, Fiddler, Http Watch, Sonar-Qube, Visual VM, Bugzilla, Quality Centre, OpenText/Hummingbird DM5.2.1, North Plain's TELESCOPE 8.3, Ember JS, Appeon Tool Kit, Splunk, App Dynamics, JIRA, JMeter, Jenkin, Bamboo
Testing Frameworks	Selenium
Operating Systems	Unix, Linux, Windows

CERTIFICATIONS/AWARDS

- **TATA Consultancy Services - STAR performer Award**
- **Amisys - Best Performer in Correspondence Generator (CG) Subsystem**
- **DST IT Services - STAR performer Award**

- TRAINING ATTENDED

Year	Title	Location	Organised by
2019	Agile Methodologies	BIRMINGHAM	SS&C Health
2016	Ember JS	Pune	DST IT Services
2012	TCS-Pragathi – Series of 35 Training programs on Soft skills and Solution Architect areas – 6 Months	CHENNAI	TCS
2009	ITIL	WASHINGTON DC	IMF
2005	Lateral Thinking	ROCKVILLE	TCS
2004	Decision Analysis Resolution	CHENNAI	TCS
2003	Master in J2EE Programming	Online	Sun Micro System

IT EXPERIENCE

SS&C Health (Formerly DST Health Solutions) (Birmingham) (June 2017 – Present)

Medicate Advance (MA) Solution

(Lead Software Engineer)

Medicare Advantage (MA) is Eligibility and Enrollment module fully compliant with CMS Medicare and state Medicaid rules. It can be easily configured to meet business requirements and workflows.

The State of Art application architecture includes Micro Services and fully automated Cloud deployment. This application integrates seamlessly with existing claim application (Amisys Advance) which is deployed for many largest health care customers.

Responsibility/Achievements: Architecture, Design and Development of Micro Services. Performance Tuning and enabled parallel processing to speed up batch processing. Gathering and implementing Non-functional requirements. Adopting Code Generation tools to increase productivity

Environment: Apache Tomcat, Java 11, Spring(MVC, Rest, Cloud Config, Cloud Sleuth, Cloud Security, Batch, Netflix Eureka, Cloud Gateway), Eclipse Link, Web-Hooks, Lombok, GitLab, JIRA, Maven, XML, PostgreSQL, and Angular 9.

Market Prominence

Market Prominence (MP) is Enrollment module fully compliant with CMS Medicare and state Medicaid rules. It can be easily configured to meet business requirements and workflows. DST is hosting MP for many of its large clients along with additional features developed over the MP.

DST CareConnect product seamlessly integrates case management, disease management and utilization management activities into one system allowing health plans to provide their membership with a holistic approach to care.

Responsibility/Achievements: Architecture, design and development of Batch Services Architecture. Performance Tuning and enabled parallel processing to speed up batch processing, Oracle PLSQL Tuning.

Environment: JBOSS EAP 7.0, Java 1.8, Spring MVC, Spring Batch, Spring DAO, Quartz, Oracle 12c, GitLab, Bamboo, Jenkin, JIRA, Maven, XML

Wells Fargo Home Mortgage / Aption LLC (DesMoines) (Aug 2016 – June 2017)

(Computer Programmer)

The CORE (Common, Opportunities, Results and Experiences) Platform is a dynamic web-based system that allows the Wells Fargo Home Lending team members to process a loan from origination to funding to deliver an overall improved experience for our customers.

ITALL, is an initiative (Innovate Test and Learn Live) that gives platform to build innovative solution in agile and deliver just in time to the customer without outage to the existing CORE solutions.

Internal Trusted Source (ITS) is an innovative solution built in ITALL environment which brings in capabilities like Know Me, WF Assets, WF Liabilities, Early Warning and WF Team Member Payroll & W2 to the existing CORE lending solutions to make decisions. The solution will reduce overall cycle time in approving the loans with accurate stipulations/documents through internal trusted sources.

Responsibility/Achievements: Architecture, design and development of micro services architecture. Performance Tuning and enabled parallel processing to speed up web services response.

Environment: JBOSS 7.0, Java 1.8, Spring MVC, Spring Batch, Spring DAO, Angular JS, Spring ZUUL, Quartz, Oracle 11g, SVN, JIRA, Maven, XML, Splunk, App Dynamics

DST IT SERVICES / DST Health Solutions (Birmingham) (Apr 2015 – Aug 2016)

(Chief Architect)

Xenon, is the Batch Solution that expedite to process backlogged claims due various reasons within the normal course of business. This automated solution addresses suspended claims, provider pricing, etc. State of art web interface is to show dashboard of job status.

Responsibility/Achievements: Architecture, design and development of multithreaded spring batch application, integrated with various claims systems. Improved performance by 300% by adapting parallelism

Environment: Tomcat 7.0, Java 1.7, Spring MVC, Spring Batch, Spring DAO, Java Mail, Ember JS, IntelliJ IDEA, Oracle 11g, GIT (version control), Maven, XML

TATA Consultancy Services/Boeing Company (Seattle)– (Dec 2009 – Apr 2015)

(Associate Consultant)

CMES, Common Manufacturing Execution System (CMES) is a Java based web application with capabilities to support all existing Boeing Commercial Airplane (BCA) programs with state of the art information technology and flexibility to evolve to support new airplane programs. This deployment retires existing MES online work instructions systems (OWI), Assembly and detail process plan (ADPP), Nonconformance management (NCM) and velocity application.

Responsibility/Achievements: Understanding legacy and created web architecture. Captured and assessed nonfunctional requirements. Design and developed technical solution framework. Address the major issues prevented production deployment.

Environment: WebSphere 8.5.5, Spring framework 3.x, Hibernate, Dojo, Oracle 11g

KMAPI, Knowledge Management and Process Improvement (KMAPI) is a framework based Lean+ which helps to plan, create, manage and execute projects, process effectively with Knowledge re-use. This was developed for Boeing to improve their productivity and maximum reuse of their prior knowledge by restructuring their processes.

Responsibility/Achievements: Create SaaS architecture, Design and Develop technical solution framework, Identified BPM framework for Workflow management

Environment: WebSphere 8, BPM, XPDL, Spring Framework 3.x, Hibernate, MSSQL Server 2005

TATA Consultancy Services/IMF (Washington DC)– (May 2007 – Nov 2009)

(Technical Lead)

E-DAM, International Monetary Fund has digital assets such as event images, event videos, working papers, publications stored in Enterprise Digital Asset Management (E-DAM). Worked as Technical Lead to support, maintain and upgrade the latest version of the TeleScope Enterprise. Also developed web services interface to publish and sell publications through external applications like Amazon.

Responsibility/Achievements: Design and develop technical solution framework, developed core components in Java and Axis, Telescope enterprise end-to-end migration.

Environment: TeleScope Enterprise 8.3, Java, Axis, WebObjects, IIS, MSSQL Server 2005

DMS, Document Management Systems facilitate the electronic storage, management and retrieval of the IMF valuable documents. The repositories will provide access to metadata and assets electronically to the other information systems in IMF.

Responsibility/Achievements: Support and maintain the document libraries, involved in upgrading DM client and server engine, technical guidance to team.

Environment: OpenText Hummingbird DM Fusion Server / DM Extension, Webtop, DM Administration, MSSQL Server 2005

TATA Consultancy Services/DST Health Solutions (Maryland) – (Dec 2003 – Apr 2007)

(Technical Lead)

CDHP, This system is able to process claims against consumer directed funds such as Flexible Spending Accounts (FSA), Health Savings Accounts (HSA) and Health Reimbursement Accounts (HRA), maintain these funds and work with outside bankcard entities for debit card processing. Invented investment module for members who can invest their funds

Responsibility/Achievements: Design and develop technical solution framework, involved in building core component and development, Real-Time call using Webs Services

Environment: Java, JSP, SERVLET, Struts, Spring, Hibernate, Crystal Reports, JBOSS and Oracle 9.0

CSA, Advanced Customer Service Application is an integrated call centre and workflow tool that enables health plans to optimize productivity, accelerate issues

follow-up and increase customer satisfaction. Automated support is provided to customer service representatives by making situations-defined scripts and pre-configured resolutions readily accessible.

Responsibility/Achievements: Involved in portal development and performance tuning.

Environment: Java, JSP, SERVLET, Jet-Speed, Hibernate, JBPM, Jasper Reports, Tomcat, JBOSS and Oracle 9.0

AMISYS Advance 4.0, a managed healthcare product aims at single, easily sharable solution that enables users from any remote location to readily access the application. The application's J2EE Web services architecture with browser-based user interface delivers the capabilities necessary to easily customize the look and feel of the product, in addition to enhancing the overall ease of integration with third party applications.

Responsibility/Achievements: Led the Performance Initiative resulted in 45% CPU uptime between older and new version of release; Oracle queries to use Oracle Hints, Connection Caching; Apache JCS for caching

Environment: Java 1.5, Apache Tomcat 5.5.25, JSP 1.2, Servlets 2.4, Oracle 11g, Javascript 1.2, CSS, XML, HP-Unix, Ant 1.6, Maven 2.0, CVS, JDBC, Eclipse 3.4, RMI, AWK, Apache log4j

SoftSolutions /NalliSoftSolutions(India) – (Jan 2000 – Nov 2003)

(Senior Programmer/Consultant Grade-I)

FexID, FexID is a centralized MIS version of FexBee, one of the hot products focussing the Trade Finance division of Indian Banking Sector. It consolidates all branches data and provides web based reporting.

Total-H Health Care Management System, The total-H Health Care product developed by aiming the US and European health care sector. This huge document maintenance software focusing those organizations providing treatments for child abuse, drug addiction, Psycho problems etc. This application provides a systematic way of tracking the patients different stages of improvement. This was successfully implemented for “Utalhalee & Cooper Villages”, one of the leading rehabilitation and de-addiction centre in USA.

Environment: Java, J2EE, Oracle, IIS, Tomcat, Apache