

Deepti Vattipulusu

🏠 SR. Consultant/Java Architect · IRS

📍 Ashburn, VA

Professional summary

Java Architect - IRS

- AWS, Oracle, Sun, Cisco, Cloudera and Microsoft Certified Professional.
- Over 13 years of experience in developing enterprise software, distributed applications, services and web applications.
- Experience in domains such as HealthCare (CMS), Tax(IRS), and Product based companies (CA - Networks), Marriott.
- Developed Web 2.0 applications and programs using J2EE technologies Spring, Spring Batch, REST, CXF(SOA), Struts 2.0, EJB 3.0, JMS Messaging, JPA, Java Server Faces, MyBatis, Hibernate, JAX-RS, JAX-WS, jsp, dojo, java script, HTML and CSS.
- Good Experience in using and implementing JBoss BPM and deploying applications built on JBOSS Business Rules Management System.
- Designed and build highly efficient and maintainable frameworks using both open source and proprietary Software.
- Expertise through all parts of Software Development Life Cycle (SDLC) and proficient in agile development methodologies.
- Well acquainted and experience with NOSQL databases like Mark Logic and Hadoop's HDFS.
- Worked on Linux, Solaris, HP, Axis, RedHat and VMWare environments for build automations and deployments.
- Able to take complex java applications and refactor code according to the best practices for modularity, loose coupling(reusability) and performance.
- Developed complicated back end jobs for FFM CMS project (Obama Care) using Spring Batch and Mark Logic.
- Modernized Refunds CADE2 runs for IRS using Spring Batch and other proprietary applications.
- Design/Develop code for Search Based Algorithms, to parse government documents and make them available online. Developed 15 multi-complex parsers and supported the application throughout its life cycle until Production.
- Designed, developed and recommend integrated security system solutions that will ensure proprietary/confidential data and systems are protected.
- Trained and mentored team members. Served as the Subject Matter Expert for the technical team.
- Expert designing, coding, debugging and testing skills.
- Detail Oriented and conducts research about the best way to implement a solution.
- Problem solver and ardent puzzle solver.

🇺🇸 Authorized to work in the US for any employer

Experience

SR. Consultant/Java Architect · IRS

March 2016 – Present · 10 yr 5 mo

Lanham, MD

PROJECT: TS2 CADE2 ReFUNDS MODERNIZATION

- Involved in design and development of modernization of the refunds processes at IRS.
- The process involves understanding the data flow with the legacy runs and interaction between the other subsystems and being able to design and implement using the newer technologies.
- Worked closely with the project manager and operations lead to come with the plan and sprints for the entire refunds project to be able to apply into the agile methodology.
- Worked with both Enterprise Solutions and REPO to understand the design and requirements.
- Automated the most crucial runs for Refunds using Spring Batch and inbuilt IRS services.
- Generated reports out of CADE2(Customer Account Data Engine, Rationalized data on DB2) for refunds.
- Worked with team to be able to have it deployed to other environments for testing and coordinated the needed JCL creations.
- Demonstrated the built functionality to business owner, PMO, ES and REPO as part of sprint reviews.
- Have participated in peer reviews and made sure we have highly maintainable and modular code where underlying technology or framework can be swapped according to the requirements and design driven by Enterprise Solutions Architect team.

Technologies: Java, Spring-Batch, Hibernate, DB2, Mainframe, Linux, RTC, JAZZ, Maven, SQL, JBDS, JBOSS, XML, Jasper, Linux environments (Dev and QA).

Sr. Consultant\LEAD • CGI FEDERAL

August 2012 – March 2016 • 3 yr 7 mo

- Worked on key initiatives for CMS such as PS&R, Open Payments and Obama Care.
- Lead and developed services in REST, SOAP (JAX-WS JAX-RS using CXF framework). Designed and developed the web Services framework for efficient and quicker development. Involved in the architecture of Authentication and Authorization of WebService. Decoupled modules from web application and made them reusable from both services and web application.
- Lead the payment aggregation module which enables the issuers to be paid. Back end jobs along with reports and UI (integrated with process management and jBPM) were built.
- Integrated the FM process with jBoss's Business Process Management and deployed JBOSS BRMS.
- Expertise in using and customizing spring batch. Used Spring Batch and developed framework around it to abstract common functionality for the team to reuse in all the other modules. Built efficient multithreaded secure back end jobs by leveraging the concept of partitioning provided by the Spring-Batch.
- Involved with architects and designed LDAP structure and its configuration. Integrated LDAP for authentication and authorization by developing its API's and integrated it using Spring.
- Developed junit test cases and xQuery test scripts for unit and integration testing for both business and QA
- Worked extensively on implementing the back end jobs for lot of data processing for Financial management (FM).
- Lead the effort to make application secure. Enabled security for the FM module. Worked closely with architect team to enable and provide user authentications and authorized user details propagation among different layers of the application.
- Implement ESB services protection and authorization. Input\Output encryption using request filters enabled Bean Validation across different layers of the application.
- Added the Alfresco upload and download functionality for fm-batch-data Module.
- Worked to incorporate gluster locations and provided CRUD API's for base file Handler.
- Helped with provisioning application which kick starts the provisioning for edge server using RedHat Server Satellite.
- Implemented CSRF protection for EdgeServer which is listed as one of the top security vulnerability.
- Helped Deployment of FFM (E&E and FM) application for Dev and Integration testing on TerraMark Linux environment.
- Built efficient multi-threaded secure back end jobs by leveraging the concept of partitioning provided by the Spring-Batch.
- Added EMF functionality and logging all across QHP and Benefits application for tracking purpose as it was going for production (First release).

Technologies: REST, JBOSS, ESB's, jBPM, Alfresco, MarkLogic, xQuery, Spring 3.0, Spring Batch, Bean Validation, XML, XSLT, xsd, Backbone.js, jQuery, LDAP, MySQL, TOAD (MySQL client) junit, Maven, Linux environment (Dev and QA), RedHat Server Satellite, SubVersion, SoapUI, QC and IQ defect tracker, CALT, JSF, jibX, JMS, ibatis, Oracle, ant, SubVersion, REST and JAX-WS implementation from cxf 3.0, JMS.

Lead Programmer Analyst · Marriott International

December 2009 – August 2012 · 2 yr 8 mo

Bethesda, MD

Description: Lead Programmer Analyst for Revenue Management System for Marriott properties around the world. Revenue management is the process of maximizing revenue generation for a product from the existing demand base. It is an activity composed of pricing, Inventory allocation and selling strategy. I am part of pricing service and group price optimization tool where we determine the price points (level) and how they are related (price structure) depending on various business rules and pricing strategies.

- Understanding the Marriott's revenue management business and to know the existing framework, components interactions and contribution from different sub-systems.
- Analyzed the whole pricing process for further enhancements and modifications.
- Helped reduce the response time of pricing service from 30 seconds to 2 seconds.
- Developed frame work classes for DAO layer using JPA.
- Developed new screens for RMS portal using both swing and dojo.
- Enhanced the business rules view where sales manager or revenue planner can set business rules for pricing.
- Built test price screen where a revenue manager can test the pricing of a property depending on the business rules set.
- Developed printing and exporting of results data from all the result screens into an excel sheet.
- Conducted performance enhancements for the displacement engine which reduced the overall response time by 10 times.
- Implemented retrieval of availability numbers from MARSHA system asynchronously to improve the response of the pricing service.
- Provided in country pricing ability and enhanced the existing pricing service for preopen properties.
- Developed server-side code for free sell functionality for inventory view and setup.
- Implemented junit test cases where ever needed.
- Was point for contact for pricing service for the Marriott.com public web interface.
- Was taking care of deployments for development and test environments.
- Assisted in configuring environments for the application which involved datapower and TAM junctions.
- Integrated and added server-side functionalities for the new screens developed for pricing.
- Corrected look and feel of the new screens which involved CSS and overwriting dojo styling's.
- Provided screen functionality in dojo.
- Developed the session handling for a new standalone application.
- Integrated security for the new application from the parent application.
- Communicating with data base development teams and business team for all the inputs, requirement gatherings and updates.
- Incorporated new business requirements as and when they were needed to the existing product.
- Wrote performance Axis test client which can be used across the team for performance tests or sample tests.
- Resolved issues opened during development.
- Responsible for unit testing for the components developed by me and integration testing.

Technologies: Java 1.6, EJB 3.0, JPA , JMS, Spring, Struts 2, , Swing, Web services(axis 2.0, xml beans, JAX-B), junit, CSS, HTML 5, JSP, JSON, Dojo, SQLJ, IBM DB2, Web Sphere (6 and 7), RAD 7.0, Clear Case, Clear Quest, Linux\Unix.

Software Consultant at Search Technologies · Government Printing Office

January 2009 – December 2009 · 11 mo

Herndon, VA

Project Description: The objective of this project is to make published government documents searchable over internet. All the government files, bills and data are organized in groups called collections. These collections are parsed to extract specific data from them, which are then refined, validated for accuracy before writing into an xml to make the data searchable from a fast search engine. A web based search facility is provided to perform search functionality.

- Designed/ Developed and Productionalized parser API for multiple collections and government documents.
- Developed Functional framework for parser design and wrote the functional classes in Java.
- Customized the document processing of FAST (Microsoft) search engine.
- Performed unit testing and validation of the developed code.
- Embedded google maps into java script for displaying the congressional districts and office locations in the clicked congressional district.
- Employed JPA/EJB for data connectivity and API's for CRUD
- Developed ant build scripts for creating WAR, EAR files and deploying to WebSphere
- Resolved production issues.

Technologies: Java, Struts 2.0, EJB, JPA, JSP, CSS, Tiles, AJAX, DOJO, JSON, SAX/DOM/XSLT

Software Engineer at CA · DIA stands for Distributed Intelligence Architecture

January 2005 – June 2008 · 3 yr 5 mo

Project Description: DIA stands for Distributed Intelligence Architecture and is designed to allow a central location to monitor and administer Unicenter installations and communication between Unicenter NSM components. It involves the use of a centralized Unicenter Knowledge Base (UKB) and a component called Dynamic Node Administrator (DNA) installed on each managed node. These components communicate with each other in a secure and transparent way and provide a highly available system.

- Designed and Implemented C++ classes and functions for Native DNA
- Designed and Implemented a reliable communication mechanism involving messaging and acknowledgement in Native DNA using C sockets.
- Experience with RPC based remote communication and multi-threading in Java and C.
- Localized whole DIA to support 130 locales using Java and implemented whole resource bundle in C. Currently DIA is on English, Chinese, Japanese, German and French locales.
- Made DIA IPv6 complaint in Java. Well versed with IPv6 global, site and link local addresses and their appropriate use in a network application.
- Setting up of pure IPv6, mixed mode environment having both IPv6 and IPv4 for verification
- Ported DIA Native Part to Solaris Intel
- Made DIA cluster aware on MSCS clusters.
- Have setup MSCS cluster setups on both VMWares and on real hardware and installed failover MS SQL.
- Enhanced the only GUI component of our product DIATool and fixed various issues in it.
- Responsible for major components like UKB, DNA and GUI DIA Tool
- Handled DIA's InstallShield, which builds installer for all 5 platforms (AIX, HP, Linux, Solaris Sparc, Solaris Intel and Windows).
- Automated the whole build process for all the above 6 platforms using Batch, Shell and Ant Scripts.
- Fixed Bugs and proactively resolved various issues during Development/ Deployment/ Production.
- Setup our own machines for Solaris, AIX, HP and Linux with all the latest patches to install DIA and verify fixes created by me.
- Was accountable for developing installer for our product including full installation, upgrading existing software product, and patch installer for software product service pack
- Have built and packaged rpms and pifs for DIA on Linux and UNIX platforms as patch installers.
- Performed software release build per schedule and requests.
- Proactively communicated with Business Team, Testing, Development, and Management for Issue escalation and resolution.
- Maintained internal team website in intranet in JBOSS.
- Developed intranet web applications in Struts, Spring, AJAX for business unit NSM
- Developed Dynamic Resource Broker in C++, API's to determine the less efficiently used of most free machines that can be allocated for load sharing.
- Developed gSOAP Publisher- Subscriber module interfaces using C++.
- Have setup the environments like bring up UNIX machines with particular component installed on each of them replicating the customer setup for reproduction, debugging and verification of fixes.
- Created an automated framework for Windows System Agent (most prevalent agent of NSM).

Technologies: C, C++, Java2 (RMI, Swing, JNI), WINS32\UNIX system APIs, gSOAP(Web Services), Visual Studio 2003 on Windows, Linux and UNIX (AIX, HP, Solaris) compilers, GDB, SNMP, IPC, XML, make, rpm , Tomcat 5.0, ESX server, ANT, InstallShield, MS SQL, ftp, telnet, rsh, Shell and batch scripts, C, C++, STL, gSOAP(Web-Services), MySQL, Visual Studio 2005, Apache Web Server, C on Windows, Sun-Solaris, HP-UX, IBM-AIX, TRU64 Platforms, STARTRACK (Bug tracking), EZFix (fix creation), applyptf (fix application) tools, make, jcl, rpm, cohesion, VB Scripting, WMI, Batch Scripting and Win runner

Certifications & licenses

Related licenses and certifications come from the candidate's resume and profile.

Certifications



AWS Certified Solutions Architect



Sun Certified Java Programmer



Sun Certified Web & Business Component Developer

Skills

Related skills come from the candidate's resume and profile.

XML

LINUX

WEB SERVICES

JAVA

Additional information

Skills:

Programming Languages Java 2, C, C++ (gSOAP), WIN 32

Framework/Open Source

Apache Hadoop, Spring, Spring-batch, Java Server faces, EJB 2.X/3.0, JPA, JMS, ORM-Hibernate, Mybatis, Swings, Struts, XML DOM and SAX parser, JAX-WS, AXIS, JAX-RPC, Servlets, JDBC, JNI, RMI, JSP, JSTL, Custom Tags, Regular Expressions, AJAX, Dojo, JSON, SQLJ.

Web-Services/Network RESTful, ESB's, JAX-RS, JAX-WS, SOAP web services (using C++, gSOAP), Socket Programming Using C, RMI, SNMP

Scripting Languages Node.js, Java Script, Batch, Shell, ANT, XSLT, xQuery, JCL, WMI.

Application Servers JBOSS, Apache Tomcat, IBM WebSphere 6.0+, GlassFish V2

Databases DB2, MarkLogic, MySQL, MS SQL Server, Oracle 10g, 9i

Web Dev. Tools Struts 2.0, Spring, EJB 3.0, JPA, HTML, XML, XSLT, CSS, JavaScript, Dojo, Java Server Faces.

Operating Systems Linux, UNIX (AIX, HP, SOLARIS-Intel, Solaris- Sparc), WINDOWS 98/2000/NT/XP

UNIX\GNU Tools gcc, gdb, rpm creation, make

Testing Tools SoapUI, Win Runner

Version Control Harvest, Clear Case, SubVersion, Jazz

Defect Tracking CLEAR QUEST, STAR, IBM QC, IQ, JIRA

IDE NetBeans, Eclipse, RAD 7.0\8.0, IBM RTC, Visual Studio 2003/2005

Packaging Maven, ANT, Macro Vision InstallShield 11

Environment Setup IPv6 network, VMWares, ESX server, MSCS Clustered setups

Additional Products CA Unicenter NSM, eTrust, Alfresco