

Suresh Vandanapu

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Summary:

Over 20 years of experience in planning, design and development of software systems in government, telecom, healthcare and financial industries with an emphasis on high-reliability and scalability. I am motivated and Innovative at design and implementation of projects that exceed customer expectations.

- Strong analytical skills and a broad range of computer expertise.
- Highly enthusiastic and self motivated, apt to learn new concepts and technologies.
- Proficient in full software life-cycle development processes.
- Lead the large teams, skilled in enlisting the support of all team members in aligning with project and organization goals.
- Disciplined approach to constructing complex and scalable applications with emphasis on reuse.
- Emphasis on using design patterns to deliver scalable applications.
- Plan, develop and implement successful large-scale projects from conception to completion.
- Extensive object-oriented analysis, design and development experience.
- Very good understanding security practices, mitigation strategies and addressing security vulnerabilities.
- Effectively operate in a goal-driven environment.

Work Authorization:

US Citizen.
Active Treasury MBI Clearance.
Public Trust Clearance.

Technical Skills:

<i>Languages:</i>	JAVA, JavaScript, Spring Boot Framework, Node, C++, C, C#, Scripting
<i>Operating Systems:</i>	UNIX, LINUX, Windows 7, MS-DOS, Z/OS, AWS Cloud, Redhat OpenShift
<i>Databases:</i>	Oracle 11g, Db2 UDB, Sybase, SQL, PL/SQL
<i>IDE & Web Servers:</i>	Eclipse, IBM Visual Age, Jboss, WebSphere, WebLogic, Apache Tomcat
<i>Web Technologies:</i>	J2EE (Servlets, JDBC, RMI, EJB, JAXB), JSF, HTML, JavaScript, XML, MQ-Series, AJAX, HTML, CSS, Spring MVC, Hibernate, REST, SOAP (Jax-ws & Axis), SOA, CA SiteMinder, CA Directory Server
<i>Configuration Mgmt:</i>	Git, Jenkins, Clearcase, CVS, PVCS, Ant, Subversion, Mvn, JIRA, CA Rally,
<i>OO Methodologies:</i>	OO Analysis and Design using OMT, Design Patterns, Rational Rose Test case framework, Spring, Hibernate O/R mapping, JPA
<i>Databases:</i>	Oracle, Db2, Sybase, Informix, DataStage, Orchestra
<i>Documentation Tools:</i>	Visio, Rational Rose Suite, MS Word
<i>Cloud:</i>	AWS EC2, Fargate, EC2, S3, EBS, Terraform, RDS, Amazon VPC, Cloud Front
<i>ETL Tools:</i>	Data Stage, Orchestra, Inflow Suite Submission Processing.

Professional Experience

IRS IAM Group Peraton

May 20 – Present

Working as Java Solution Architect/Senior Software Developer with Identity and Access Management (IAM) group under Application Development branch. Currently working on developing custom solutions to integrate Authentication and Authorization tools and developing plug-in frameworks in Java and JavaScript for ongoing modernization and digitization of tax payer experience. Involved in leading and managing teams for cloud modernization and application enhancement and CI/CD integrations and compliances with new security guide lines and IRMS.

- Work with Enterprise Architecture to define and present architecture to suit business requirements to support Online Income Verification System for Individual Tax Payers and Business Tax Payers.
- Develop Custom Connectors and validators for interfacing with various systems to retrieve data using REST API's and COTS frameworks.
- Implement CI/CD Process using Jenkins pipelines to automate the build and deployment process.
- Update the pipeline to include code coverage tools such as SonarQube.
- Fix the security vulnerabilities after security scans and get the application for production ready deployments.
- Design and Implement Cloud Readiness Package architecture to move existing infrastructure to AWS GOV Cloud.
- Worked on Retooling and TaxFormCreator application that was used to verify and validate schema's using Node and Spring Framework using Json and XML libraries.
- Work with RedHat team to containerize the application using RedHat OpenShift docker solutions.
- Work with COTS Vendors and Partners for Integrating custom java solutions within the IAM Team.
- Work with external interfaces for validation and verifying digital signatures using Enterprise Signature and Storage Retrieval Systems.
- Work with E-Services team to enable security controls API's deployed via Broadcom API Gateways using oauth token services.
- Build proof of concept solutions using Ping Identity auth Axiomatics Access Decision Service micro service based architecture.
- Integrate Siteminder Infrastructure with authorization framework for use with axiomatics software.
- Transition Technology infrastructure to Enterprise Operations.
- Build the Systems that suite high availability architecture.
- Perform performance testing using the internal approved tools.
- Produce ELC Documentation that conform IRS standards and guidelines. Preparation of systems for ELC milestones.
- Work with various project stakeholders such as cyber security, enterprise operations, enterprise architecture to complete milestones.
- Authorization solution testing with in IRS Sandbox, Development and Integration and deployment support to Production Environment.
- Analyze Web Methods API Gateway for use in micro container architecture for software as a service.
- Worked in agile environment with 2 to 3 week sprint's with follow up sprint review's and

retrospect for process improvement and project tracking.

Environment: Ping Auth, Java, Java Script, Node, SonarQube, Nexus Repo, Git, Axiomatics, CA API Gateway, AWS, Redhat Openshift, Jboss, SOA, WebServices SOAP/REST, Axiomatics, SOAP UI, Ping Identity, Webmethods API Gateway, Maven, Tomcat, Nexus, Rabbit MQ, Nexus build System, Agile Methodology, Test Driven Development, CA Directory.

***IRS Enterprise Services/Solutions Engineering
Northrup Grumman IS/IAM Solutions***

June 15 – Apr 2020

Working as Solution Architect/SME/COTS Integrator with Platform Engineering group which is part of the Solution Engineering Division team in the Enterprise services Branch. Platform Engineering group provides PaaS Services, Joint Innovation Labs support, prototype development, support for infrastructure shared services such as smsp, integration broker, siteminder, authorization framework, reviews and approves the solutions in accordance with Enterprise Architecture guidelines.

- Work with Enterprise Architecture to define and implement security roadmap for Authentication and Authorization solutions.
- Evaluated various COTS software solutions for next generation authorization solutions such as Oracle Fusion Middleware Entitlement Server, IAM Suite, Jericho Systems.
- Implement and standup authorization as Infrastructure service that externalize policy-based authorization management from application development for use Treasury Environment.
- Design policies that suite the prototype requirements.
- Build proof of concept solutions using Attribute Based Access Control using COTS model with in IRS Infrastructure.
- Integrate Siteminder Infrastructure with authorization framework for use with axiomatics software.
- Transition Technology infrastructure to Enterprise Operations.
- Build the Systems that suite high availability architecture.
- Perform performance testing using the internal approved tools.
- Produce ELC Documentation that conform IRS standards and guidelines. Preparation of systems for ELC milestones.
- Work with various project stakeholders such as cyber security, enterprise operations, enterprise architecture to complete milestones.
- Authorization solution testing with in IRS Sandbox, Development and Integration and deployment support to Production Environment.
- Analyze Web Methods API Gateway for use in micro container architecture for software as a service.
- Evaluate External authentication and authorization solutions such oAuth implementations that suite IRS infrastructure.
- Work with Team to move development build and deployment process CI/CD process using Jenkins.
- Support Security Scan Vulnerability compliance and testing with Application and COTS Software perform upgrades to comply with Security Scan finding.
- Working on containerize the Applications to Redhat OpenShift Platform for onPrem containerizations of existing VM's.
- Work with Enterprise Cloud Program to move the onPrem Infrastructure and applications to AWS Fed Ramp Certified Cloud to support new applications on the cloud offerings.

- Implement Externalized authorizing solutions using Attribute Based Access Control (ABAC) technologies using Axiomatics Policy Based Authorization COTS product.
- Provide custom solutions to enable externalized authorizations to suit different client applications.

Environment: Axiomatics, CA API Gateway, Java, COTS, Jenkins, AWS, Redhat Openshift, Jboss, SOA, WebServices SOAP/REST, Axiomatics, SOAP UI, Ping Identity, Webmethods API Gateway, Maven, Tomcat, Nexus, Rabbit MQ, Nexus build System, Agile Methodology, Test Driven Development, CA Directory.

***Accenture Federal Services
IEP Automation***

Apr 15 - May 15

Worked as a Systems Architect/COTS Integrator/Java SME with Accenture Federal Systems which providing solutions to federal clients. Treasury/Internal Revenue Service Enterprise Portal Modernization program consolidates applications using Open Text Web Experience Management with Open Text portal for innovative reporting and analysis using Google Analytics and Google dynamic web search. Worked on Integrated Enterprise Portal (IEP) automation Solution, that works as a Platform as a Service (PaaS) for Java based applications. PaaS solution enables automated deployment of IRS applications into Accenture Cloud environment using Java framework and VMWare cloud framework. Integrated Enterprise platform content deployment solution validates application bundles and passes them to vCenter Orchestrator workflow for provisioning of the applications in the virtual environments. PaaS solution automates creation and resolution of service tickets for change request management using ServiceNow for cloud.

- Worked on Enhancements to IEP content delivery Java based framework for Interfacing with vCenter Orchestrator for running the batch workflows.
- Analyze and provide solution to have IEP content delivery to interface with vCenter Orchestrator for workflow execution and status checking using SOAP Interface of vCenter Client Adapter.
- Worked on Enhancements for provisioning of new applications into automation environment.
- Enablement of V2 Processor Java based solution for multiple environments to interface with Service Now API using Apache Jersey REST api.
- Implementation and test deployment support of the automated solution into various environments such as dev and test and productions.
- Research into akamai cache clearing interface for REST based solution on automated deployments into production environments.

Environment: Java, COTS, Jboss, SOA, WebServices SOAP/REST, vCenter Orchestrator, JSON vCenter Developer, ServiceNow, Spring, Hibernate, Maven, Tomcat, Nexus, Rabbit MQ, Nexus build System, Agile Methodology, Test Driven Development, CA Directory.

***Internal Revenue Service
Affordable Care Act
ACA Information Returns (AIR)***

May12 - Apr 15

AIR system processes ACA mandated forms using InflowSuite Submission Processing framework. This system acts as backbone of all HealthCare forms intake processing for IRS and

interfaces with various IRS subsystems and external systems such BPD, IPF, CMS, CDR and web portals using SOAP Web Service protocol for forms processing and storage.

I have been working as a Lead infrastructure Integrator and Java Development lead at IRS. I have solid understanding of various subsystems involved in ACA Forms Processing due to various roles in the project. I was heavily involved on architecture, design, framework development, infrastructure integration, customization and testing and implementation of core system framework and multiple sub system interfaces.

- Worked as Infrastructure Integrator to integrate InflowSuite Submission Processing System with CA Directory and WebSphere MQ, Oracle Database.
- Developed various customization Modules to interface with down stream and upstream systems such as BPD, IPF, IEP, AFA, CMS, CDR..
- Review of High Level technical architecture and Prototype development.
- Develop technical hooks to InflowSuite core component to avail the parallel processing of submissions using Spring and Hibernate Framework.
- Port the Developed Application to Jboss Application Server from Tomcat Oracle Virtual Workstation.
- Troubleshoot and Fix issues with Integrating with External systems in terms of Security and Scalability of the System.
- Worked on project proposal and Project performance report generation.
- As a task lead, I have suggested improvements to existing process, communicated with external teams to develop web services and involved in resource planning.
- Developed and enhanced framework to process Adobe smart forms using apache cxf SOAP framework, iText PDF conversion library. .
- Played primary role in resolving last minute challenge running Jax-ws based web service in Jboss.
- I was one of the code reviewers to ensure code quality.

Environment: Java, Jboss 6.1,SOA, WebServices, Apache Cxf, Maven, Tomcat, JBoss, MQ, CA Directory, Agile Methodology

***Internal Revenue Service/CSC
IRS Modernization
Middleware Infrastructure***

Oct 08 - Apr 12

I worked as a SME(Subject Matter Expert) for Infrastructure and Integrated solutions applications (IIS). Middleware Infrastructure supports various infrastructure applications and COTS products that comprise Registered User Portal and Employee User Portal applications. Middleware group handles prototype solutions for integrating COTS customization and production support of application infrastructure that provides common solutions for applications using portals.

- Designed and built lab infrastructure for sandbox and development and Integration streams.
- Integrated Infrastructure applications with secure XML gateways to handle large SOAP XML traffic to IRS portals.
- Integrated WebSphere Application Servers and MQ Messaging Infrastructure with CA SiteMinder Security products.
- Involved in complete infrastructure setup and configuration which included WebSphere ND 6.x/7.x, SiteMinder 6.0.
- Ported Java Applications into higher releases of WebSphere Application Server.
- Enhanced Infrastructure applications in Java and C++ to support the Modernized E-filing.

- Troubleshoot and Fix Production issues related Application Performance and Infrastructure performance.
- Provide solution to support scalable Infrastructure (clustering, virtualization) to support multiple releases.
- Monitored Applications and WAS performance through Tivoli Performance Viewer and Tivoli Enterprise Portal.
- Developed unix shell scripts/utilities to automate repetitive tasks. Monitoring various metrics of the application server environment.
- Tuned the system -- caching, queuing, JVM parameters, DB Connection Pooling. Created the Packaging scripts using Tivoli and Package Build Process.
- Implement and test changes to infrastructure to address security vulnerabilities as a part cyber security recommendations
- Participate effectively in execution of projects to support development, integration, production, and infrastructure deliverables.

Environment: Java ,J2ee ,XML, XSLT ,Miseries, WebSphereAppServer, Vignette, Netgrity SiteMinder, SOAP, XML, SunSolaris, NT, RationalRose, Etrust Directory, .NET,C#, COTS, CMMI

Automated Enrollment (AE) IRS Modernization

Aug'05 – Sept '08

Automated Enrollment Application is designed and developed to replace the manual process of enrolling Application Systems into IRS Portals for Application to Application (A2A) Web Service Processing. This System provides front-end interfaces to both internal and external users of IRS portals.

As a consultant at **IRS Modernization Project** was involved in the design and development of automated enrollment application.

- Architected and Designed the AE System that conforms to IRS Portal Architecture Framework.
- Oversee the full Life Cycle Development from Analysis, Requirements to Development, Deployment.
- Presented the functional prototype to IRS Business Users.
- Designed and Developed multithread back-end service to fulfill enrollment requests from front-end.
- Provided layered Architecture to isolate the directory schema changes from Application modification.
- Developed transformation modules to convert and revert AE Message format to DirectoryService Markup Language (DSML) Format.
- Provided support to write Technology Model View and Application Model View Documents.
- Drew Object and State Diagrams Using Rational Rose.
- Involved in deployment of the Application into various environments from development into sit/sat/production environments.
- Developed Proxy Interface for Presentation Layer and retrieve and store mail message Repository.

Environment: Java ,J2ee ,XML, XSLT ,Miseries, WebSphereAppServer, Netgrity SiteMinder, SOAP, XML, SunSolaris, NT, RationalRose, Etrust Directory, .NET,C#, COTS, CMMI

FreddieMac, Analytics Services Center, Mclean,VA
Fair Value Attribution/BizSim Applications
Fair Value Attribution System

May 04 – Aug 05

Fair Value Attribution System is web based application that automates the process of populating controlled database repository and generates daily and periodic reports for Asset Liability Management, Valuation and Capital Strategy Group. This System populates the position and risk metric data for ATLAS instruments and does attribution calculations. These reports will be used quantify differences between price attribution results based upon Green Package and ATLAS information, and view components of return on portfolio, change in fair values reported in quarterly and annual financial statements, Also these reports will be used to determine values of portfolios at certain times during the term of the loan to be used by Fixed Income Research group for tuning and generating financial models.

I have been involved in the design and development of Warehouse Management System. It comprises of various modules viz. Receipt management, tender management, indent management, purchase management etc...

- Lead the Team for back end design.
- Designed and Implemented Transformation Components that extracts data from Atlas and Apex Data Sources, and apply business rules to create the data for Attribution DB
- Created layered architecture for running business rules inside the FVAS Process Framework.
- Designed and Implemented interfaces to interact with Calculator Component that calculates fairvalues.
- Designed and integrated reporting, rule execution components within FVAS Process Framework.
- Developed build scripts for building FVAS System.
- Developed Process for scheduling and productionalization of FVAS System in AutoSys Environment.
- Created Object and sequence Diagrams using Rational Rose. Assisted in creating candidate Architecture for FVAS System.

Environment: Java ,J2ee ,C++, Weblogic,Tomcat, Sybase, Ant ,JAXB, Hibernate, Struts, JSP, XML, SunSolaris, NT, RationalRose.

Northrop Grumman IT, IRS/PRIME Modernization,
Lanham,MD
Secure Objects Repository Application

Oct 02 – May 04

SOR Application provide secure method to return sensitive, tax-related information that cannot be sent via ordinary email to external IRS partners such as tax-preparers, attorneys,corporate financial officers. Internal IRS Employees will use SOR Application to retrieve transcripts and other tax information that cannot be immediately processed. This is part of Security and Infrastructure Application Services for IRS Modernization. This Application provides set of common services for Storing and Retrieving SecureMail to Other Modernization Application as E-Services, Modernized E-Filing.

I was involved in the development of a hypertext based context sensitive help system for Visual Works applications.It is designed to provide an easy way to build help for applications and provide quick and easy access to large amount of loosely structured information for novice users.

- Developed multithreaded SOR Server using Application messaging and data access service Framework (AMDAS) API .
- Developed multi-threaded parsing routines for serialize/de-serialize of XML payload using

- Xerces XML parser.
- Enhanced Application Interface to support modernized E-filing Applications for storing retrieving bulk acknowledgement data in Registered User Portal.
- Drew Object and State Diagrams Using Rational Rose.
- Developed Proxy Interface for Presentation Layer and retrieve and store mail message Repository.
- Enhanced Enterprise Directory Agent System to facilitate single sign on to access Business Objects Reports.

Environment: Java ,J2ee ,C++ ,Miseries, WebSphereAppServer, Netgrity SiteMinder, Vignette, XML, SunSolaris, NT, RationalRose, Etrust Directory,COTS

Verizon Communications

Sept 99 - Sept 02

Silver Spring MD

LD Data Ware House Application

LD WareHouse application is used by warehousing group, to track activity and revenue of long distance customer s, and to build leads to generate Customer acquisitions, Customer retention Campaigns. This application interfaces with various operational systems including Service Order, Legacy, Billing System and Express Track Systems.

I was involved in the development of Marketing System Long Distance Application Warehouse.

- Lead the Reporting Team of six developers .
- Provided guidance on overall data strategy for the organization.
- Developed transaction based acquisition modules to source data from various input systems and process data using various business rules before loading them into multi terabyte data warehouse.
- Created C++ Components using DataStage Orchestrate API.
- Used Torrent orchestrate is component based framework for ETL processes, parallel applications for running on massive parallel systems.
- Developed various shell scripts using Korn Shell and Awk.
- Developed aggregation modules to create aggregated data from detail tables and loading them into dimension and summary tables for reporting Long Distance Product/Plan/Promotion Data.
- Developed complex SQL queries involving extremely large tables to implement Extraction Process.
- Interacted with client representatives and external data vendors in finalizing requirements and data formats.
- Design and develop web based reporting application through which users can verify and generate the product/plan activity and product/plan revenue reports and service order provisioning status as well generate campaigns.
- Developed web-based application front-end has been developed using Business Objects Webi Interface.

Environment: C++, DataStage, Orchestrate, ,JAVA, Business Objects Webi, BOSupervisor, BODesigner,, Servlets, JDBC, Db2 UDB, WebSphere, HTML, Rational Rose, AIX, RS/6000, PVCS, C++, XML,, MVS

UPS Informtion Systems, Paramus, NJ

Mar 99 - Sept 99

Web Tracking System

Worked on Web based Tracking system allows UPS Customers to track their packages via Web. This System allows customers to submit batch of tracking numbers via file upload feature of the browser, allows to receive package detail responses as a file or as an email.

- Responsible for requirements gathering, design of the system.
- Participated in the requirements analysis and design of the application.
- Enhanced system to support batch type of input/output interface.
- Developed web interface using HTML.
- Coded servlets that parse input MIME message and interact with other servers to retrieve response data.

Environment: Sun Solaris, Rational Rose, UML, Java, JNI, HTML, C++, ClearCase

Education:

Bachelors in Computer Engineering

Mangalore University, INDIA

Training :

Ping One Identity and Access Management

AWS Solutions Architect Associate

SiteMinder Security Infrastructure implementation

Axiomatics Policy implementation

Vignette Content Management Developer Training

BusinessObjects Webi/Developer Training

IBM WebSphere Administration Training