Profile

IT Professional with deep understanding of technology trends with expertise on core complex technologies. Solid experiences with Big Data, Business Intelligence, Cyber Security, Data Architecture, Data Warehouse, Data Modeling, Data Integration, Cloud Infrastructure, ERP, ETL, Master Data Management, Networking, Programming, Project Management and Hardware Infrastructure Engineering.

Over 30 years of diverse work experiences in Information Technology, this includes hands-on technical work as well as team leadership and project management. I had worked on several technical areas and on numerous types of projects, including Big Data analytic, structured systems design and analysis, application and systems programming, ITIL implemented grid and clustered network infrastructure deployment.

Data is my subject matter expertise that includes performing data architecture and modeling task that address the need to develop Use cases for any horizontal and vertical industries it also covers technologies such Big Data, Data warehousing and Data Lakes. Data integration is another skillset of proficiency that I possess specially in developing models to incorporate different disparity data sources like legacy IBM mainframe datasets formats, ERP, OLAP, OLTP, structured and unstructured formats, JSON, XML and others.

I’m had been involved in implementing and deploying Appliances, Big Data, Data Lakes, and Open Source infrastructure into a Security Risk assessment management program framework in order to be compliant with FISMA mandate and NIST 800.

The experience I bring to the team and organization includes my working project deployment with Department of Defense in Walter Reed National Military Medical Center and Naval Support Facilities in Diego Garcia, Department of Commerce and Department of Treasury. I had also worked with State governments on full time position and contract projects with California, Georgia and Nevada. While on Vertical industries project, I had worked in large commercial retail chain stores, banks, healthcare, pharmacy, transportation, semiconductor manufacturing, financial services, insurance, and telecommunication.

Core Competencies

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| * In-depth working experience in dealing with complex data architecture that covers different horizontal and vertical industries. * Extensive data modeling experience in designing database, data warehouse, multi-dimension and star schemas for BI reporting requirements for both logical and physical models. * Plan, install and configure, validate Linux environments including OS (Red Hat, Centos and Ubuntu), application servers, and services layers in network cluster environments to meet life cycle needs for project software delivery. * Extensive working knowledge of Business Intelligence tools for implementation in conjunction with upper and middle management report requirement that address governance and regulatory laws. * Provide expertise on major security projects role in implementing a NIST based requirement for Federal and State Governments to secured infrastructure. | * Extensive expertise on ETL tools such as Ab-initio, IBM DataStage, BO Data Integrator, Informatica and Pentaho as tools for data integration and data warehouse. * Sound good background on Government regulatory mandate such as Electronic Medical Records, FISMA, HIPAA, RMF, SOX and Basel. * Practice good validation and system development practices to plan, elicit requirements, design, configure, test and deploy computer systems. * Conversant with data warehouse appliances such DCA and IBM Netezza hardware this involve hardware installation using RHEL Linux, configuration of high-speed network switches and security server hardening process. * Some good technical expertise in working with ERP systems such as Lawson, PeopleSoft and SAP. * Knowledgeable working with IBM Mainframe Z, I and P series and x86 hardware infrastructure environments. |

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| * Data Architecture (20 Years) * Data Integration (25 Years) * Solution Architecture (10 Years) * Enterprise Architecture (8 Years) * Service Oriented Architecture (10 Years) * Big Data/Data Lake Architecture (8 Years) * Master Data Management Architecture (5 Years) * Cyber Security Architecture (6 Years) | * SDLC, Kimball, Imon, Martin, PMBOK, Agile (20 Years) * Application Design and Development (25 Years) * Functional Architect for PeopleSoft and SAP (8 Years) * Relational Database – DB2, Informix, Ingres, Oracle, Postgres, SQL Server, Sybase (20 Years) * ETL Architect (17 Years) * MBSE – Model Based System Engineering (15 Years) |

Technical skills summary

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| IBM Software | InfoSphere Information Server, Information Analyzer, DataStage Fast Track, Quality Stage, IBM MDM, IBM Engineering Lifecycle Management (ELM) tools, IBM Jazz Suites, IBM Rhapsody |
| Operating Systems | IBM Mainframe/Midrange I, P and Z Series  UNIX (AIX, Sun Solaris, Linux, FreeBSD, OpenBSD)  MVS, VM, CICS, DOS/VSE, JCL, TSO, REXX, Windows 7/8/10 |
| Languages | C, C++, COBOL, Basic, Fortran, RPG II/III/400, PERL, Python, Ruby |
| Databases  Database Appliances  App Server/SOA  MBSE Tools | DB2, IMS, Ingress, MS-SQL Server, PostgreSQL, Oracle, Sybase  Greenplum DCA, Netezza, Teradata  IBM WebSphere, BEA Weblogic, JBOSS  Sparx EA, IBM Rhapsody, IBM Jazz |
| ETL Tools  Data Visualization | BO Data Integrator, Informatica, Talend  Cognos, Collibra, Elasticsearch, Kibana, Qlik |
| Apache Project/Open Source  Network and Security Technologies  Storage  ERP Packages  Methodologies/  Governmental | Hadoop – Horton & Pivotal distros, Ambari, Big Data, Cassandra, Elastic Search, Eclipse, Hbase, Hive, Mahout, MapReduce, Pig, Spark, Tomcat, ZooKeeper  AD/LDAP, Open SCAP, Bastille, Snort, Security Onion, Retna, OSSEC, Arista, Brocade, Cisco, Juniper  EMC Data Domain and Isilon, IBM Tivoli  PeopleSoft, Lawson, SAP  Basel, HIPAA, EMR, FISMA, DAMA, DoDAF, RMF, NIST800, SysML, Zachmann |

Employment HISTORY

Jacobs Technology, Huntsville AL – Redstone Arsenal, May 2019 to Present

Insight Global, Huntsville, AL – Redstone Arsenal, October 2018 to April 2019.

Virpie Technology, Southbury, CT, October 2017 to September 2018

Dell EMC, Hopkinton, MA, April 2012 to June 2017

A&E Business Solutions, Madison, WI, November 2011 to February 2012

Perficient Inc., Charlotte, NC, July 2011 to October 2011

York Solutions/Stream Integration, Chicago IL & Toronto Canada, September 2010 to July 2011

Georgia State Accounting Office, Atlanta, GA, September 2007 to March 2009

Logan Britton, Boston MA, June 2007 to August 2008

IBM, Costa Mesa, CA, September 2005 to June 2007

Oracle Corporation, Pleasanton, CA, November 2004 to September 2005

Independent Contractor, CA, NY, PA, NJ, May 2002 to October 2004

Hyperion Solutions, Stamford, CT, October 2001 to April 2002

Event 411.com, Marina Del Rey, CA, January 2000 to July 2002

Bizrate.com, Marina Del Rey, CA, 1999 to 2000

APR Consulting, Diamond Bar, CA, January, 1997 to August 1999

Experience

Big Data Architect

* Perform analysis of hardware needs for infrastructure requirements to setup Hadoop Ecosystem in a commodity hardware and virtualize machines environment, also it address storage needs.
* Install and configure Hadoop Ecosystems that includes Ambari, HDFS, Hbase, Hive, Pig, Map Reduce, Kafka, Yarns and others.
* Develop methodology strategies on how to migrate legacy application, IBM Mainframe, ERP, relational database and structured data into Hadoop Ecosystem environment.
* Design and deploy processes on how to extract, ingest and consume data from sources such as structured and unstructured into Hadoop Ecosystems.
* Promote and drive the extensive use of ETL Tool’s in developing Hadoop application to compliment MapReduce in timely manner of deployment.

Data Architect

* Perform data modeling to develop Use Case’s for certain Clientele that requires data integration from different sources of data to enable seamless ingestion to Big Data and Data lakes infrastructure.
* Develop logical data models for Big Data and Data warehousing schema to lay down the initial frame work foundation prior to the final physical model implementations.
* Conduct JAD and RAD sessions to develop functional specification used during requirements, analysis and design, implementation phases a project.
* Create and develop Enterprise wide data mapping of all source and target data that will be used for cataloging different application and system.
* Lead efforts to capture, document, communicate and present all information pertinent to an end-to-end business solution including architecture and supporting recommendations.
* Define data solution technical architecture vision and ensure alignment with business goals of the projects.
* Perform deep data analysis on the different input and target sources that will be used for data model analytics to eliminate issues found during the process.
* Install database systems i.e. develop flowcharts, apply optimum access techniques, and coordinate installation actions, document installation process.
* Engage with a Healthcare provider in undertaking process to decommission legacy application to store it to an archive infrastructure and can be used to retrieve back that application on demand basis.

MBSE Architect

Provide technical expertise in creating model basic systems from application to data, networks and security aspect that are based from SysML and UML functionality with adherence to DoDAF and Zachman framework.

* Define data solution technical architecture vision and ensure alignment with business goals of the projects.
* Develop initial and existing requirement through IBM Doors to define project scope, guidelines and mandates.
* Utilize IBM Doors requirement as part of the initial inputs to develop SysML and UML diagrams based from DoDAF and Zachman model standards.
* Provide functionality to integrate with Agile software tools such as activity tasks used to track or monitor on the progress of define project based from IBM Doors requirement.
* Develop high level context diagram, BDD, IDD, SysML and UML using tools such as IBM Rhapsody, No Magic and Spark EA to build baseline model.

DataStage Architect

Lead in role providing support and infrastructure for software delivery migration and continuous integration and process improvement for customer facing projects.

* Provide architectural expertise for Information Server product suites such as DataStage, Fast Track, Information Analyzer, MetaStage and Quality Stage.
* Responsible for installation, configuration, testing and migration of DataStage projects to latest GA release for IBM InfoSphere Information Server.
* Perform database configuration setup for Netezza data warehouse appliance and LDAP Active Directory.
* Provide best practices on how to optimize performance tuning of slow DataStage jobs to obtain desirable response time by taking advantage of parallel and single thread bandwidth.
* Served as DataStage Architect for a large health care insurance provider, I was involved in doing Administration, installation, configuration, database connectivity and performance engineering.
* Design and develop DataStage jobs for both parallel and server editions for RTI, MQ, and Web Services for real time application development.
* Provide knowledge expertise on IBM DataStage automate workflow process to source data from external such Teradata, EBCDIC data format integrate.
* Provide mentoring and training to DataStage Administrator and Developer of the new enhance functionality that was not available in the previous and current GA release versions.

ETL Architect

Lead in role providing support and infrastructure for software delivery automation and continuous integration and process improvement for customer facing projects.

* Perform architectural task such as estimating hardware capacity growth, user requirements for development, production and QA environments and offer day-to-day solutions concerning ETL tools such Ab Initio, DataStage, Informatica and Talend.
* Provide Subject Matter Expertise for ETL Tools such as Ab Initio, DataStage, Informatica and Talend software product suites on better way to deploy and implement.
* Involve in configuration and setup process for ETL Tool’s Infrastructure environment that contains hardware, network, storage devices and software package for a large Health Care Association entities.
* Advice and guide developers, Project Manager and others regarding ETL tool’s issues, such as performance tuning, bug’s issues, security patches and software updates.
* Provide mentorship to ETL tool’s Admin who needs guidance and fixes patch issues for new GA releases. Also work with DBA to solve problems regarding bugs and fixes found in current version of IBM InfoSphere Information Server.

Greenplum Architect

* Implement and document best practices for Greenplum DCA system administration task like steps on full shutdown and turn off power in a DCA environment.
* Provide technical guidance and procedure for setting up Data Domain backup and recovery solution for two separate data center location wherein on site will be the backup data center location.
* Recommend best practices on fine tuning of Greenplum database instance by examining current SQL code in production by applying best optimizer setup.
* Design and develop Use cases and data models for a target Pre and Post Sales activities for current and new clientele migrating towards DCA Greenplum infrastructure.
* Provide IBM DataStage connectivity with Greenplum database using native Greenplum client and connections libraries.
* Conduct knowledge training and mentoring for new Greenplum DBA’s, Developers and Sys Admin.
* Develop and code Greenplum SQL scripts to perform Extract, Load and Transform process for customized requirement to utilize Greenplum MPP infrastructure.

Integration Architect

* Provide Subject Matter Expertise on ERP packages such as Lawson, PeopleSoft and SAP packages on areas of technical and functional aspect that covers data model, schema, business process logic and others.
* Execute special process that extract data from legacy application and automatically converts those data into standard CSV text, JSON, HL7, XML and other data formats that was developed by third party software products.
* Perform data analysis of source legacy application and convert them into a data mapping from source to target environment.
* An evangelist on the heavy use of ETL tools to extract data from IBM Mainframe, legacy application, ERP. Web and others assuming that environment has exiting ETL tools available on hand.

Infrastructure Architect

* Develop infrastructure hardware requirement that covers type of processor, memory, storage and network devices for commodity and virtualize server’s environment.
* Create plan of action how to deployment and implement hardware servers during requirements gathering, planning and analysis cycle of the project.
* Install, configure and setup AIX, BSD, Linux and Solaris UNIX distributions for new servers in a commodity, container, Lpar and virtualize environment settings.
* Responsible for the initial System Administration task function in order to apply software and security patches, create User Id’s that require administration roles.
* Configure, setup, and apply security software updates for high speed network switches, storage devices and VLAN configuration.
* Apply OS software and security patches for Data warehouse appliances such as EMC DCA and IBM Netezza servers.
* Develop a design strategies for DR, backup and recovery for hardware and software to meet SLA requirement define during the project deployment.

Security Architect

Engage with Federal Government to implement Security Risk Assessment procedure to attain certified DISA requirements prior to Approved to Operate.

* Involved in security hardening procedure for DCA servers to be compliant with DISA (Defense Information System Agency) policies for risk assessments process and in accordance with FISMA (Federal Information Systems Management Act) mandated law passed by Congress.
* Remediate POAM (Plan of Action Milestones) findings by applying appropriate STIG (Security Technical Implementation Guideline), OS security patches for Red Hat Enterprise Linux, DCA security patch code updates and turn off unnecessary Linux services.
* Execute additional OSCAP software scan run to evaluate security vulnerabilities that was never been detect in the previous process.
* Deploy, install and implement security cryptology standards recommend by Defense agency security auditors.
* Install and configure AD/LDAP, LogRhythm for log event management analysis, Avamar for Data Domain backup and recovery procedures for DCA servers.
* Setup Greenplum user accounts using CAC/PIV security cards to login with Windows Desktop and Laptop computers.
* Perform Red Hat Linux system administration task like monitoring the condition of DCA, cleaning unnecessary junk log files, developing shell-scripting code to automate process and avoid manual intervention procedure.
* Apply security patches, troubleshoot and remediate hardware issues such Arista and Brocade switches, high-speed 10 Gigs NIC cards, deactivation of IP Address due to changes from outside DCA environment.

Solution Architect

* Create plan of action and activities involve from Pre-Sales into Post Sales conversion which covers SOW and SLA requirements of the project.
* Provide solution and strategy on how to integrate App Servers, Greenplum instance, open sources tools, web services and third party vendor software packages into a seamless integration to the current infrastructure environment.
* Responsible for large-scale data migration loading from Teradata to multiple DCA Greenplum database instance using special utility processes developed.
* Conduct JAD and RAD walkthrough session for Project Stake holders, Business Users and Analyst, DBA, Developer and others involve in the projects.
* Recommend extensive use of Master Data Management if these package is currently license and installed on the software infrastructure environment.
* Identify areas for rapid application deployment, performance optimization and issue’s resolution for the current environment dealing with software development life cycles.
* Convert and migrate DDL scripts such as DB2, Oracle, MS-SQL, Teradata and other relational database into a Greenplum instance.
* Provide Greenplum technical expertise regarding database conversion and migration from Teradata to Greenplum instance.
* Design and develop special utility shell script to address stop gap issues of some missing third party software functionalities specially dealing with automated processes.
* Perform data modeling using CASE tools to reverse engineer certain type of relational database into Greenplum and Hadoop schemas.
* Designed and implemented continuous build and deployment services to development teams and QA. Ensure a high quality and repeatable deployment process to multi-tiered environment architecture.

Languages

Arabic, Bahasa, Spanish, Tagalog

work status

US Citizen