**Solution Architect**

Information Technologist with the solution/technical architecture and diverse commercial enterprise experience of over 24 years, ranging from IT services to engineering, manufacturing, and technology companies. My extensive IT solution and program-delivery depth with leadership experience forms the foundation for a broad understanding of business, information, and technology, to enable operational efficiency in evolving services and supply-chain organizations.

**Specialization**: Application integration, technology integration, enterprises business intelligence, cloud application (solution) development/delivery/management, cloud application integration, vendor management, order-to-engineering application (CPQ), workforce management, engineering applications, financial applications, business solutions, application security

**Core Competencies**

|  |  |  |
| --- | --- | --- |
| * Technical Architecture | * System Integration | * Design Solution |
| * 6 Sigma Black Belt | * System Analysis | * Client Services |
| * Product Development | * Program and Project Management | * Technology Strategy |
| * Business Process Automation | * Problem Resolution | * SDLC |
| * Team Building | * Vendor Management | * Technology Roadmap |
| * TOGAF® | * Design Patterns | * Data Architect |
| * Internet of Things (IoT) | * Agile, SCRUM, CMMI | * SOA |

**Technical Proficiencies**

|  |  |
| --- | --- |
| **Applications** | Oracle CPQ, Infor CRM, Infor EAM, PTC Thingworx |
| **Data Models** | ER Diagram, DBMS, Logical/Physical, UML |
| **RDBMS** | Oracle 7 to 12g, SQL Server 4.2 to 2014 |
| **NoSQL** | MongoDB, HBase, |
| **DB Tools** | Erwin, Visio, Oracle Designer, SQL Developer, TOAD |
| **BI Tools** | Cognos, SQL Server BI, Business Objects |
| **Languages** | Java, C#, VB.NET, PL/SQL, JavaScript, PERL, Unix shell scripts |
| **Technologies** | J2EE, ASP.Net, Web Services, MVC, Web API, SOA, Microservices |
| **PM Tools** | MS Project, Team Foundation Server, MS Office, etc. |

**Professional Experience**

**Solar Turbines (A Caterpillar Company) – San Diego, CA,**9/2004 – Present

**Program: Engineering Solutions (2015 - current)**

**Solution Architect / Technical Program Manager:**

* Worked with the Director of Engineering and the Functional Managers to understand their strategic goals, and assisted them to create multi-year IT roadmaps to achieve their business goals
* Architected solution to reduce manual tasks by integrating applications, and enhancing existing applications
* Involved in formulating strategic plans for component development to sustain future project objectives
* Gathered detailed business requirements and use cases, translated technical specifications into product requirements, Created team strategies and established project scopes of work,
* Communicated project deliverable, timeframes, and benchmarks to the stakeholders.
* Wrote and implemented new server, middleware, and database standards, developed proto-types
* Architecting and developing an IoT solution using PTC Thingworx for the management to provide real time high level overview of the departmental workload, and velocity with the historical cycle-time pattern to better manage their workforce.
* Architected and developed a data analysis framework for historical data using 30+ years of engine test/quality data and 10+ years of fields data for the product research & development scientists to provide them test and quality data for further analysis and research for product improvements and quality.
* Managed web projects and developed team of UI/UX designer, database developers, application/middle-tier developers, and web developers
* Redefining existing web-services to microservices, implemented new java security framework (Apache Siro)
* Introduced DevOps practices to the project for continuous delivery and continuous deployment in the environment
* Managed web projects and developed team of UI/UX designer, database developers, application/middle-tier developers, and web developers
* Key Accomplishments:
  + Projected saving for the company one million dollars every year by improving velocity and reducing cycle time
* Technologies, Methodology & Processes:
* J2EE, TomCat, Web-services, Microservices, Spring Framework, Jenkins, Spring Boot, Struts, Maven, Oracle 12c, Tomcat, Oracle CPQ Integration, IBM BPM
* PTC Thingworx, Tableau, Data Replication, Data Synchronization, 6 Sigma, Agile, SCRUM, ETL, SOA, MongoDB, Docker, Jenkin, Windows servers
* Evaluation NoSQL databases (MongoDB, HBase)

**Program: SCOPX (Oracle CPQ Cloud) (2011-2015)**

**Solution Architect / Technical Program Manager:**

* Designed, re-architected, and implemented Solar’s first cloud solution with minimal support from the vendor
* Developed proto-types and architected the solution
* Designed and implemented inbound and outbound multiple interfaces with Product-Lifecycle-Management (PLM) program
* Helped company to save ten million dollars by improving velocity and reducing Sales, Marketing, and Product Execution team productivity.
* Implemented integrated work-flow process with in-house CRM (PDSWin) application
* Implemented single-sign-on (SSO) security using SAML 2.0 for the application
* Successful led other projects to migration in the cloud:
* Migration of Customer Service PSU and Overhaul projects in the cloud environment
  + Implementation of Customer Service Alliance Letters project
* Key Accomplishments:
  + New solution was 5 times faster compare to previous implementation
  + More user friendly, more flexible, and required less click to finish the tasks
  + Combination of system and process reduce process-time
* Technologies, Methodology & Processes:
  + Oracle CPQ Cloud, IBM WebSphere, IBM BPM, Software AG WebMethods, Oracle database, VMWare virtualization, security framework, SAML 2.0
  + Java, J2EE, Web-Services, Data Replication, Data Synchronization, 6 Sigma Agile, SCRUM, ETL, SOA, Microsoft SSIS

**Program: Solar InSight (2008-2011)**

**Project Manager / Technical Architect:**

* Led the project from proposing, re-architecting to implementation to the extract / transform / load (ETL) logic that help performance
* Involved in architecting Field Service integration with Insight application
* Implemented complex systems integration between Business Information Management (CRM+) and Machine Data Analytics system
* Re-designed / optimized queries to improve the response time by 500%
* Led Tomcat migration pilot project and migrated InSight User Access Management / Technical Library application on Tomcat environment
* Implemented two-factor authentication to improve the application security in the DMZ
* Developed & implemented InSight bedrock project (LogMon-engine-data ingestion process)
* Involved in multiple small project from enhancing and improving application functionality
* Trained myself on Java and J2EE programming
* Key Accomplishments:
  + Remove bottleneck, increase velocity by 300%,
  + Reduce lead-time from >2hours to 2-3 minutes,
  + Increase scalability by changing sequential processing to parallel processing
* Technologies, Methodology & Processes:
  + Java Technology Stack (Java, J2EE, Hibernate, Spring), IBM WebSphere, Tomcat, Oracle database, web-Services, ETL, SOA, JMS,
  + Microsoft Technology Stack (ASP.Net, C#, MSMQ), IIS

**Project / Application: Infor EAM Implementation (2006-2008)**

**Technical Architect:**

* Led the project of upgrading and maintaining Datastream’s BAIM (Business Applications Interface Module & B2B DataBridge) and Data Warehouse Applications in Oracle 8i/9i, and Oracle 9iAS server.
  + Infor EAM was Solar’s first De-Militarized-Zone (DMZ) pilot project
* Designed and implemented data migration tool
* Implemented automated work order creation process based on Insight (version 1.0) event
* Developed customized Cognos BI reports and interfaced with the application
* Implemented Solar parts integration with Infor EAM
* Key Accomplishments:
  + data migration tool helped the company to save $100K+
  + Infor EAM was Solar’s first De-Militarized-Zone (DMZ) pilot project

**Project / Application: PDSWin (2004-2006)**

**Senior System Analyst:**

* Enhanced and maintained Product Configuration and Project Management (PDSWin) application (Visual Basic, Crystal Reports (known as SAP BO), COM+, ASP, and Oracle)
* Implemented the Sarbanes-Oxley (SOX) rule in the application
* Improved application performance by implementing some of the business logic using DB stored procedure, DB packages
* Improvised report output by 500% through query optimization
* Simplified application design to improve usability, reduce number of input screens
* Developed service component model for:
  + Consistent output behavior, Better application design,
  + Increase velocity, avoid code repetition
* Migrated MS Access database applications into MS SQL Server: Competitive Database, Document Control System, etc.
* Participated in installation of .NET Framework and configuration of IIS server
* Completed Six Sigma Green Belt Training

**Rapidigm Inc. – Irvine, CA,** Oct 1999 – Sept /2004 **(Senior System Analyst)**

**MTC/ Corbus – Dayton, OH,** 5/98 - 9/99 **(System Analyst)**

**IT&T Ltd. – New Delhi, India,** 2/96 - 4/98 **(System Analyst)**

**Punwire Telecom – New Delhi, India,** 1/95 – 1/96 **(Programmer Analyst)**

**IT&T Ltd. – New Delhi, India,** 8/93 – 1/95 **(Intern)**

**Education & Trainings**

* **Master in Business Administration (MBA),** July 2010,Institute of Management Technology
* **Bachelor Degree in Mathematics,** July 1993,University of Delhi
* **Oracle Certified DBA,** July 2006,Oracle Corporation
* **ITIL Certification**, September 2011, Caterpillar Inc.
* **6 Sigma Black Belt,** December 2015, Caterpillar Inc.
* **Java & J2EE Training,** November 2008,Caterpillar Inc
* **TOGAF® (Level-1) certified,** Oct 2016, The Open Group
* **Pursuing AWS, MongoDB certification**

**Work Status (in US): US Citizen**