**Gerald Provost:** Results oriented Information Technology professional with proven execution capabilities with respect to domestic and global Information Technology teams, establishing new-market agility and profitable growth for F500 and G2000 client companies. **Eight plus (8+) years’ experience with Denodo Data Virtualization Platform.**

**SUMMARY**

* **Dynamic Technology Leader** with a proven record of success in the architecture of enterprise data and information management solutions that satisfies real-world analytics/informational, operational/transactional, (web, cloud and B2B integration) and other enterprise data management & data services requirements:

**Illustrative:**

* + **Enterprise Architecture / Architecture Blueprinting & Roadmap Development:**

While engaged with Blue Cross Blue Shield of Michigan, Gerald was a lead member in the establishment of the McKinsey driven Enterprise Architecture (EA) capability matrix which led to the development of multiple blueprints in support of business transformation efforts associated with transactional and business intelligence. Other engagements with Citigroup and Anthem BCBS/WellPoint include ensuring that these organizations future assets, processes, and capabilities are built and aligned with their strategic objectives to include (a) The definition and description of current state technology components their association with organizational strategies, (b) The definition of optimally aligned future state capabilities and processes, (c) The definition of maturity models and metrics, (d) The identification/Analysis of existing gaps between current state strategic and operational capabilities in relation to future state recommendations, (e) The development of road maps for realizing future architectural states.

* + **Enterprise Analytics & BI Enablement:**

While engaged with a leading financial services solutions provider, Gerald lead the Design and prototyping of a next generation Analytics & BI enablement platform – (next generation - data repository, data quality assessment & monitoring, reporting and analytics engine) capable of providing near real-time data to corporate decision makers. This architecture incorporates next generation data management systems – Big Data technologies, data virtualization engines, data quality assessment & monitoring engines, business intelligence engines, analytics engines, data harmonization and globalization engines. Client companies are able to connect, combine and publish data from multiple sources/providers (Cloud and on-premises) into an environment that is capable of effecting “user-empowered “ real and or near real-time information delivery to include reporting, analytics and data mining activities incorporating single and multi-phased predictive models.

* + **Data Governance – (Metadata Management an Data Quality)**:

Multiple engagements related to the development of enterprise data governance models/frameworks, metadata management, data quality assessment and monitoring leveraging best of breed metadata management, data profiling, data quality assessment and monitoring tools and frameworks. Client companies were able to take advantage of Gerald unique business and value driven approach to data governance (metadata management, data quality assessment and monitoring) to enhance their business value and the reduction of organizational risk.

* + **Fast Data Management Architecture - (Fast Data Analytics - *IoT*)**:

The architecture features Fast Data management technology, Big Data technology, Data Virtualization technology which provide the ability for IoT edge devices to forward streams of actionable data to a centralized repository for processing/analytics along with the enrichment and analysis of IoT edge device data sets in real-time (Fast Data Analytics & Management). As a result of this solution, this world renowned network/datacenter/IoT performance monitoring and solutions company is able to provide fast data analytics to its customers that has enabled them to better leverage IoT edge devices data sets into providing actionable insights in order to reach peak reliability and significantly boost their quality of service (QoS).

* + **Big Data Technology Architecture**:

Gerald has been engaged in the creation of Big Data technology proof-of-concepts (PoCs) to validate the benefits of IBM and AVNET Big Data solution for multiple clients to ensure that the Big Data solution proposed by these two (2) organizations is the solution that will satisfy each client Big Data requirements. These POCs, leverages AVNET Big Data Appliance, IBM Big Insights with BigSQL- a Hadoop enabled data platform to augment/move batch oriented jobs from Netezza and combine the power of Hadoop and Netezza using IBM Fluid Query. Scope of these POCs include, the migration of client data sets to the Big Insights platform, Creation of Stored procedures within Big SQL, Configuration IBM Fluid query on BIGSQL to establish connectivity to Netezza, establish connections to multiple data visualization tools, Creation of performance measures for comparison with other Big Data Solutions (Cloudera, Hortonworks).

* + **Distributed Data Architecture**:

Multiple engagements which saw the creation of repeatable, consistent, and scalable distributed database architecture that exploits commodity hardware systems networked to provide high levels of scalability and reliability. This design utilizes standard hardware configurations utilizing Intel chip architectures and Linux operating systems. It is capable of supporting large-scale oracle databases which are used to provide shared database hosting as well as handling ultra-large database applications. In addition to providing large scale and expandable performance, the design provided for high levels of availability and continuity of operations utilizing database –aware technologies to include: Oracle Grid Architecture – Oracle Coherence, Oracle (Real Application Clusters (RAC), Automatic Storage Management (ASM), Data Guard (DG) and Enterprise Manager Grid Control (OEM)). The design addressed a set of requirements that is intended to support mission critical data of 10TB plus, 10K plus I/O operations per second and over 5K concurrent connections.

* + **Master Data Management (MDM)**:

Gerald has been engaged with multiple MDM initiatives related to software, Healthcare and Financial companies and has provided consulting services related to the design, planning, governance and implementation of these initiatives to include;

* + - Digital Commerce: B2B online eCommerce (Software Sales and Trials) initiatives which leverage enriched on-premises SAP MDM (customer, account and site) data along with off-premises cloud based data sets.
		- Data Enrichment: Enrichment of MDM repository data to include customer, account and site with external data sets (DnB and its partner’s dataset). The underlying solution leverages SOA constructs in the integration of off-premises (Salesforce-SFDC, Dun & Bradstreet (DnB)) datasets with on-premises SAP MDM (Customer and Vendor) datasets
	+ **Software Development -** *(Insurance, Healthcare, Education)*:
		- ***Insurance & Healthcare:*** Gerald served as director of software development for Peminic, Inc. where he managed all aspects of the software development process to include architectural layout, coding, quality assurance and maintenance that relates to WEBAgent – Peminic Cloud-based, business process platform and toolkit that is responsible for the creation of its suite of Healthcare Applications/Solutions to include: (Incident Manager Solution, Claims Manager, Root Cause Analysis, Legal Matter Manager, Peer Review Manager, Infection Control Manager, Performance Improvement Manager, Employee Health Manager, Compliance Manager and Contract Manager).
		- **Education**- (K-12 School Management Software Suite):

As a software architect Gerald has been instrumental in the design and development of cloud based school management software solution that delivers and provide the key functionalities that are necessary to meet the emerging and evolving educational information management and delivery market. This solution provides the following key functions: Student Demographic Management, Student Mobility, Student Grade/Attendance/Scheduling, Student Assessment, Student Misconduct, Student Program Management, Student Special Education, Free/Reduced Lunch Management, Teacher/Principal Performance Management, and Teacher Professional Development.

* + **IP-Telephony / Unified Communications Solution**

Gerald has been instrumental in the creation and architecture of a redundant IP-Telephony network, utilizing cutting-edge IP technology capable of riding on some of the world's premier internet backbones. This robust, state-of-the-art cloud based architecture that guarantees reliable, inexpensive communications (voice, email, SMS, Video) to any point on the globe. Based on this infrastructure, organizations such as AllCom (http://www.allcom.com) is able to provide a wide catalog of value-added IP-Telephony products and Unified Communications Services. The implementation includes software solutions that enables the clustering of multiple Soft switches / PBX systems for reliability and speed, the association of trunks to multiple providers, the delivery and management of services to include the integration of real-time communication services such as Instant Messaging (IM), Presence Information, Telephony, Video Conferencing, Call Control and Speech Control with non-real-time communication services such as; (integrated voicemail, e-mail, SMS and fax).

* + **Tele-Health/Tele-Medicine Solution**

Gerald has been instrumental in the creation and architecture of an HIPAA compliant, cloud based Tele-Medicine Solution that enable primary care physicians to wavelet compress, forward encrypt, display and transmit via the Internet/Secure VPN dermatological images integrated with reports and annotations to a centralized location for consultation and interpretation by a board certified dermatologist. This application incorporates HL7 (Health Level 7) Standards, a tele-medicine compliant browser plug-in capable of transforming a standard browser equipped computer into a tele-medicine compliant workstation. This application enables a clinician to easily assemble a consultation, including demographics, images, video, audio, studies and scanned documents. This browser plug-in controls cameras, scanners, and other data acquisition devices directly, eliminating the need for additional programs. These features along with Internet-based services - web-based chat, email, and discussion groups - help foster communications and collaboration between dermatologists and their affiliated primary care physicians. Supported by this application, a dermatologist is able to provide affiliated primary care physicians with Dermatological consultation services regardless of their geography.

* ***Unique in-depth perspective*** Gerald’s experience brings a unique perspective spanning multiple technology domains to execute Data and Information management architectures from strategy to implementation.
* ***Proven ability*** to understand enterprise data management visions and translate them into strategy and real, actionable solutions

**AREAS OF EXPERTISE:**

Analytics & BI Enablement Architecture, Application software/systems resiliency frameworks and playbooks, Big Data Technology Architecture, Business process modeling & automation, Big Data Analytics, Budget and Portfolio Management, Business and Information Technology Strategy Planning, Cloud Computing, Distributed Database Management Systems, DevOps Tools & Implementation, Data Virtualization Architecture, Enterprise Data Management (Integration & Governance),Enterprise Architecture Blueprint and Roadmap development, Enterprise Architecture Technical Leadership & Problem Solving, Enterprise Architecture (Data & Information Management),Enterprise Mobility Management, Fast Data Management Architecture, Integrated Data Marts & Data Warehouse (IDW) Architecture, IP-Telephony Network & Unified Communications Solutions Architecture, Internet of Things (IoT) Architecture, Master Data Management (MDM) Architecture, Process Methodologies (Agile, Waterfall, RUP, etc.),Product Development, Software Development, Tele-Medicine Application Architecture, Vendor Management & Contract Negotiation.

**METHODS**

Enterprise Architecture (TOGAF), Governance (COSO/ COBIT, ITIL, etc.), Delivery Methodologies (PMBOK, Agile, Waterfall, RUP, DevOps (CI/CD)

**PROFESSIONAL EXPERIENCE**

**Managing Partner & Principal Consultant:** *Cloudfectiv, LLC.* ***August 2016 – Present***

* *Overall thought leadership* (structure, marketing, talent acquisition, etc.) of Data management& Analytics Enablement practice
* *Established CloudFectiv as a leading IT Infrastructure Transformation and Analytics Enablement services and solutions organization.*
* *Consults in lead roles related to* ***Enterprise Data Management and Analytics & BI Enablement.***

Engagements with Entertainment, Pharmaceuticals, Telecommunications, Distribution & Logistics, Financial and Travel Related Services organizations contributed to the development of modern data architectures for the management, socialization and visualization of enterprise data sets. These architecture leverages Big Data technology (Hadoop, Spark), Traditional Relational Data sources, Data Virtualization Technology (Denodo) and Data Assessment & Monitoring Technology (DQAM) which enable the creation of next generation multi-terabytes Integrated Data Warehouses (IDW) where data from various sources are combined into an integrated model. Sources includes traditional relational data stores, Web & Cloud based data, Big Data (Hadoop) Stores, Big Data lakes and any other enterprise data sources that are required to be a component of this integrated environment. The referenced architectures enable these organizations to leverage their data into manageable assets that deliver near real-time, actionable information to employees and business partners.

**Principal Consultant:** *Cotran Technologies, Ltd* ***August 1991- August 2016***

Provided consulting services and solutions related to: Enterprise Architecture (Governance, Leadership, Blueprint and Roadmap development, etc.), Enterprise Infrastructure Reference Architecture, Application Architecture, Enterprise Data Management and Visualization in the era of the Internet of Things (IoT), Metadata and Data Quality, Integration & Governance frameworks  (Quality, Entitlement & Virtualization tool Denodo), Big Data Technology proof of concept (POC), Distributed Database Design, Integrated Data Marts & Data Warehouse Development and Implementation, Business and Information Technology Strategy Planning, Customer Relationship Management  (CRM), Master Data Management (MDM), Building of competent software development teams  capable of meeting technology and business demands, Application software integration – Cloud & On-premises (IaaS), HIPAA compliant Tele-health/Tele-medicine systems, Biometric enabled application software systems & solution, Asset Management - RFID enabled application software systems & solutions, IP-based video surveillance systems and  IP-Telephony – Unified Communications.

Consulting engagements include, but were not limited to the following companies:  Allstate, Alyeska Pipeline Service Company, Allcom, Inc., Avnet*,* American Trans Air, Brooks Fiber Properties, Blackboard, British Petroleum, Bristol-Myers Squibb, Blue Cross Blue Shield of Michigan, CA Technologies, Citicorp North America, Inc., Cummins Engine Company, Cotran Telecommunications, Ltd., DuPont, DermDx Centers for Dermatology,  DOCSAIDE, LLC., EG&G Park, GE Computer Services, H.S. Crocker Company, IBM, McKinsey & Company**,** MedImmune, MetLife, MUFG/Union Bank, Nations Bank, Neustar, Inc., Northern Telecom - (NORTEL), Putnam Investments, Pfizer Pharmaceutical, PriceWaterhouseCoopers, , Oracle Corporation, Peminic, Pittsburgh Public Schools, The European Travel Commission, QVC, RF Power Products, State Farm, T-Mobile, UPS, and WellPoint/Anthem BCBS.

**Director – LAN/WAN Technologies:** *CAS Technologies, Inc.* ***September 1987 - August 1991***

System Integration Company – Managed software and network engineering teams that designed, developed & Implemented Accounting and Manufacturing Information Systems.

**Sr. Manufacturing Software Engineer:** *Burroughs/Unisys Corp.* ***February 1986- September 1987***

Mainframe Computer Manufacturer/Systems Integrator - Developed software testing tools used in the secondary testing of Burroughs/Unisys A-Series computer systems

**EDUCATION**

**University of Miami, Coral Gables, FL**

* Master of Science, Management Information Systems
* Master of Science Education, Curriculum & Instruction
* Bachelor of Science, Building Construction Management

**TECHNICAL SKILLS SUMMARY**

**Process**

Agile, RUP, Waterfall.

**Enterprise Architecture**

TOGAF, FEAF, ZACHMANN - Numerous Enterprise and Information Architecture Patterns.

**Denodo Data Virtualization Platform (DDVP)**

Architecture, Administration and Development leveraging Denodo 5.5/6.0 Virtual Data Port:

 • Installation and configuration Denodo platform, patching, monitoring usage and performance.

 • Architecture and management of Denodo Security and audit.

 • Creation of Canonical models with Denodo Virtual layer for consumption by Enterprise Data Services.

 • Integration of Northbound Data Consumers/Visualization Tools (Business Objects, Qlikview and Tableau) with Denodo.

 • Establishment of Self-service Portals from the DDVP to allow for: data discovery, data lineage and ad-hoc reporting.

 • Integration of Denodo with third party APIs - (encryption/decryption services etc.).

 • Design and Implementation of DDVP performance enabling caching strategies.

 • Integration of Denodo with frameworks such as GitHub, automation for backups, custom scripting etc.

 • Creation of playbooks and Guidelines for developers, Business Consumers and Power Users.

 • Training and Mentoring of Junior Data Virtualization professionals.

**Software Systems, Libraries, Frameworks, Appliances, Standards & Tools**

Dell Boomi AtomSphere, Fiorano – (SOA, ESB, MQ - Data / Applications Integration Engine), IBM WebSphere (Cast Iron), Expressor (integrator, repository, processor), iDASHBOARD, Qlikview, Pentaho BI Suite, Pinnacle Suite – (SIS, Gradebook, Insight, Aspire), MicroStrategy, Jaspersoft BI Suite, Crystal Report, Holos, Hewlett Packard-Intelligent Warehouse –(HPIW), nQuire – Oracle/Siebel Analytics, Trillium-(Data Profiling / Governance Software Suite), Tableau Analytics, AXURE RP Pro - Prototyping tool, IBM Tivoli – (Identity Manager), InfoSphere Guardium, Talend (data integration, management, profiling and governance solutions), CorVu, Business Objects, InfoPump, EDA/SQL, ENCINA, AutoSYS, Rouge Wave (Tools.h++ & DBTools), Precise Software-(Inspect, Interpoint, Indepth), UML - Rational Rose, Intersystems CACHE, GitHub, HIPAA, DICOM, CANDA, Alpharel-(AlphaVIEW,AlphaSCAN,AlphaQC,AlphaDX), WebLogic, Mule, DataPower, Apache Stack, IIS, Tomcat, AEPSystems/Netilla, APPC, OSF-DCE, HL/7, SOAP, SYMIX, COINS, OpenEMR, OpenVISTA, Peminic – WEBAgent and HIS Solution Suite, Microsoft.NET framework, Java/J2EE framework, Alfresco (Document Management, WCM, Collaboration), DHTML Tools, ERWin, Embarcadero (Architecture & Modeling suite), Oracle Designer, Oracle Coherence, Serena (SBM,SSM, Requirements Mgr., Development Mgr. & Release Mgr., TeamTrack), ActiveVOS (BPMS/BPEL Engine), FINEOS, PeopleTools, PeopleCode, Web Services related frameworks (UDICo-TierBroker, SOAP, CXF), XAWARE – (SOA Data Integration engine), Varonis - Data Governance Suite, SEI CMMI Framework, ITIL, TOGAF, BPEL, BPMN.

**Operating Systems & Networks**

Linux (CentOS), UNIX (Coherent, BSD, SYS V), SUN Solaris, VOS, Unisys MCP, Unisys OS1100, Novell Netware (All Versions) VAX/VMS, RSX-11M, OS/2, CTOS, DECNET, TN3270, LU6.2, Microsoft Windows XX

**Programming Languages & Web/Universal Client Development Tools**

C#, C++, XML, AJAX(Asynchronous JavaScript), XPATH, WSDL, PHP, HTML, JAVA, CGI/Perl, SQR, Oracle PL/SQL, SQL, MS-Web Platform, MS-Visual Studio, Visual C++, Visual C#, Eclipse, Pascal, Fortran, Forth, Progress DML, COBOL, ALGOL, VX/REXX.

**Data Management Systems & Related Tools**

Denodo (Data Virtualization & Information Management - V5.5 & 6.0), Ab Initio (Metadata Hub, ExpressIT, BRE, Data Profiler), Datawatch, Cloudant, ORACLE (V6.x–Oracle11g), Oracle (Advanced/Multi-Master Replication), Oracle11g – (Real Application Clusters (RAC), Automatic Storage Management (ASM), Data Guard (DG), Enterprise Manager Grid Control (OEM)), Oracle (GoldenGate), Oracle Coherence, PROGRESS RDBMS, MySQL, Visual FoxPro, Oracle RDB, DB2, Informix, Infobright, Apache Hadoop – (HDFS, Map-Reduce, Pig, Hive, Hbase, ZooKeeper, Sqoop, Flume, OOZIE), Hortonworks Data Platform (HDP), InfoSphere BIGInsights – (BIGSQL, BIGSheets), Netweaver (SAP MDM), SQLServer, PostgresSQL. VoltDB, MarkLogic, HP- Vertica, Apache Kudu.

**IP –Telephony**

3GPP and xDSL Architectures, QoS, Fixed & Mobile VoIP Architectures, SIP, H323, MGCP, RTSP, NAT Traversal, PPPoX, 802.1X, DHCP, Media Codec (g711x,g729, etl), VoIP NOC (Design & Configuration), Cellular Bridging, SIP Messaging & Security, ADVOSS Billing, Amdocs, MediaCore, CallMax.

**INDUSTRIES / VERTICAL**

* Education, Financial, Accounting (A/R, A/P, G/L, P/R, F/X, Tax), Manufacturing (MRP, ERP), Telecommunications (PBX, ISDN, Central Office Switch, VoIP), Insurance, Airline/Travel Related Operations, Petrochemical, Publishing, Pharmaceutical, Retail (Point-of-Sale, Distribution), Healthcare, Logistics and Transportation, Software.

***Last Modified: March 2017***