

**BRUCE BARDWELL**  
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## ENTERPRISE ARCHITECT / SR. IT MANAGER

### SUMMARY

Sr. Data and Enterprise Architect who is a Sr. IT manager with over 15+ years of leadership experience in designing innovative business solutions. Skilled in SQL and NoSQL data solutions, cloud computing, information management, application development, and virtualization with expertise in communicating across organizational levels with cross-functional teams that drive the shared vision and foster a culture of excellence for all.

- Direct experience in the following Industries: Aerospace, Energy (Oil/Gas/Electric), Financial, Legal, Medical, Retail.
- Over 15+ years of hands-on leadership of Service-Oriented Architecture, Business Process Mapping, Project management, Team Leadership, Zachman Frameworks.
- Over 5+ years of Hadoop/Oracle Cloud Services experience in data architecture using NoSQL/MongoDB, and Hadoop/Hbase in implementations.
- Over 15+ years of experience as Sr. Data Modeler/Database Architect using RDBMS' like Microsoft SQL Server, Sybase ASE, Oracle, Informix 4GL, and DB2.
- Over 15+ years leadership in system designs, enterprise architecture, security for all assets.
- Over 15+ years of hands-on leadership in RDBMS' like Microsoft SQL Server, Sybase ASE, Oracle, Informix 4GL, and DB2.
- Over 15+ years of SQL based systems architecture design and system performance tuning for large-scale Enterprises; single instances of MS SQL greater than 15+TB of data.
- Over 15+ years of direct Infrastructure/SAN architecture design and system performance tuning for large database systems from vendors such as EMC, Hitachi, and HP.
- Expert level knowledge of PowerShell for controlling hundreds of Windows Servers and SQL Server via SMO, WMI, and VMware systems.
- Direct knowledge and experience in how to implement business contingency and disaster recovery that includes the development of a hot site with a Service-Orientated Architecture(SOA) in the following:
  - Installation and configuration of high availability equipment,
  - Business Intelligence/OLAP solutions,
  - Database clusters,
  - Data isolation on SANS devices,
  - SaaS, PaaS, IaaS, and Cloud Computing,
  - Development/Maintenance of Service Level Agreements (**SLA**) for all enterprise infrastructures.

### EDUCATION

**Master of Business Administration** (11 hrs. completed), Texas A&M University, College Station, Tx, 2012 - 2013

**Bachelor of Science, Mathematics** , University of Houston-Victoria, Houston, Tx, 2012

**Bachelor of Science, Computer Science** , University of Houston-Victoria, Houston, Tx, 2011

### CERTIFICATIONS

Microsoft Certified Trainer (former) - **MCT** , Certified Fraud Examiner - **CFE** , In-progress

Microsoft Certified Systems Engineer - **MCSE**, Certified Information Security Specialist - **CISSP**, In-progress

### TECHNICAL TOOLBOX

**Application Development Tools:** Visual Studio (2017-6), Team Foundation Server (2013-2010, 2008).

**Application Release Automation:** Puppet, SCCM

**Big Data - Architecture:** Hadoop, IBM BigInsights, Amazon Web Services, Microsoft Azure.

**NoSQL:** Amazon SimpleDB, Hadoop/Hbase, MongoDB, IBM Informix.

**Programming:** Java, R, MapReduce Java, SparkR.

<b>Business Analytics:</b>	Amazon Web Services, IBM Big Insight Analytics, Microsoft, Oracle Big Data, VMware Big Data.
<b>Business Intelligence:</b>	IBM Cognos, SAS, Microsoft (SSRS, SSAS, Power Pivot), Oracle Hyperion, SAP Business Objects XI, Siebel Systems.
<b>Case Tools:</b>	BpWin, Rational Rose, System Architect™.
<b>CRM:</b>	SAP, Siebel, PeopleSoft, Onyx, Quintus.
<b>Databases:</b>	Microsoft SQL Server (2016-2000, 7, 6.x, 4.x), Oracle (12c-2x), IBM DB2, Sybase ASE 12, Informix 4GL.
<b>Database Tools:</b>	Embarcadero: ER/Studio, DbArtisan, Quest: Litespeed, Foglight, Spotlight, Idera: SQLDiagnostic Manager, Defrag Manager.
<b>Development Methodologies:</b>	Agile (Scrum/XP), Best Practice, Lean, RUP, Waterfall.
<b>Development Technologies:</b>	.NET, LAMP.
<b>Enterprise Architecture:</b>	Zachman Framework for Enterprise Architectures.
<b>ERP:</b>	Oracle EBS 12.x, SAP (RFC, IDOCS, and Basis), JD Edwards, PeopleSoft, Lawson.
<b>ETL:</b>	Informatica (PowerCenter, PowerMart 5.x), SSIS, Validity 3.11.
<b>GIS:</b>	ArcGIS, ArcMAP, ArcIMS, ArcSDE.
<b>Messaging Software:</b>	Microsoft Exchange (2013-2000, 5.5), Lotus Notes/Domino(8.x-3).
<b>Middleware:</b>	IBM Websphere/MQSeries, JBOSS, BEA Weblogic, Webmethods (6.x-4.x), BizTalk (2003, 2002), MSMQ/MTS.
<b>Monitoring Software:</b>	SCOM, SolarWinds/DPA, Splunk, Spiceworks, WhatsUp
<b>Networks:</b>	Ethernet (10GbE, 1000BaseT-10Base2), Frame Relay.
<b>Network Storage:</b>	EMC Isilon, QNAP, Synology DiskStation.
<b>Operating Systems:</b>	Windows (2012R2-2000, NT 4-3.5), Red Hat Linux (7-6), AIX(7x-3x), SUN Solaris, Unix, Novell Netware, OS/2.
<b>ORM:</b>	Hibernate, nHibernate, Hibernate OGM.
<b>Platforms:</b>	Intel x86/x64, Blade Servers(Cisco, HP), IBM iSeries/AS400, SUN (10000E, 450e).
<b>Programming Languages:</b>	SQL, PowerShell, C#/C/C++, Java, XML, SmallTalk, Lisp, Prolog, Rexx, Unix Shells.
<b>Project Methodologies:</b>	Agile, COBIT, ITIL, ISO, Kanban, NPI, RAD, Scrum, Waterfall.
<b>Regulatory Compliance:</b>	Dodd-Frank, FISMA, GLBA, HIPAA, PCI-DSS, SOX.
<b>Reporting Tools:</b>	SSRS, SAP Business Objects, Cognos.
<b>Routers:</b>	Cisco (760, 1602, 2501, 5500, 7500), Juniper, Nortel, Alcatel-Lucent.
<b>SAN Software:</b>	EMC-Navisphere Manager and Analyzer, Enginuity.
<b>SAN Storage:</b>	Dell Compellent, EMC-CLARiiON(FC: NS-4, CX3-80, CX3-20, CX3-40, CX-500), EMC-Symmetrix, Hitachi, HP MSA.
<b>Switches-Fabric:</b>	Brocade, Cisco.
<b>Virtualization Solutions:</b>	VMware vSphere (6.x-5.x), ESXi (6.x-3.x), Microsoft Hyper-V.

## PROFESSIONAL EXPERIENCE

**March 2001–June 2010, June 2012–Present****OmniTech Applications, Inc.****Functional Role: Sr. Enterprise Architect** | Teams of up to 55Clients include: NASA – JSC, British Petroleum, Sequent Energy Management LP, Reliant Energy Inc.Koch Industries, Vastar Resources/BP America Production Co., BMC Software, Waste Management, Inc, Personix – Fiserv, 99 Cent Only, Hubwoo, Tradeco Chemical Corporation, Transcore, Amerex Energy, LLC, CVR Energy, Inc.

- Lead global Oil & Gas E&P division's Strategic Performance Unit in its Deep Water Operations in Gulf of Mexico Business Intelligence in an architectural redesign while reducing Operational Expenditures (**OPEX**) by \$378,500.00 (32% reduction) annually.
- Partnering with client's business owners to plan, measure and deliver their **Enterprise Architecture** so data utilization, publication, and product development programs are on target and on/under budget.
- Manage architectural improvements, design and integration solutions, and formulate methodologies to optimize object-oriented software and database development in **Cloud solutions**.

- Lead Architect in design and execute proofs-of-concept for critical enterprise capabilities, including building business case with costs, benefits, and efficiency measures.
- Lead and direct Infrastructure, Application & Database cross-functional teams for virtualization of servers, optimization of Storage Area Network (**SAN**) disk systems while ensuring 99.999% operational uptime.
- Lead Architect of software development teams using **Agile/Scrum** for engineering/business applications development in .NET C# for mid-stream O&G client.
- Direct Sarbanes-Oxley (**SOX**) adherence ensuring business unit compliance by managing audit relationships providing an 18% increase in workflow efficiency.

**Notable Accomplishments:**

- Direct and manage Energy trading company's upgrade from SQL 2000 to a Clustered SQL 2012 led to a reduction in maintenance downtime of 38% and a consolidation of database instances from 13 to 2.
- Define business and ETL processes that resulted in a 38% reduction in load times due to improved processing.

**Black Knight Financial Services****June 2010 – June 2012****Functional Role: Sr. Database Administrator and Enterprise Architect | Team of 20**

- Lead Architect of Enterprise Key Management in SQL Server Tabular Data Encryption/Columnar level encryption using hardware appliances with CA Certificates to ensure the company is within **SOX** and **PCI DSS** compliance.
- Led multi-discipline teams with an annual budget \$2+ million ensuring on budget delivery of developed .NET applications.
- Delivered solutions for systems upgrades using both Agile and ITIL v3 which saved \$250,000 in OPEX annually.
- Designed replacement servers and disk architecture for the development/QA/Production environments with cost savings of \$250,000.00 per year.

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- Designed replacement servers and disk architecture for the development/QA/Production environments with cost savings of \$250,000.00 per year.
- Architected Encryption/Key management system development and implementation that reduced **OPEX** costs by \$350,000.00 year over year.

**Previous Experience (details upon request)*****Functional Roles: Operations Manager / Technology Manager / Architect*****MILITARY**

Honorable Discharge, United States Air Force