# OBJECTIVE

**MS SQL Server DBA/Architect.**

# OVERVIEW

* **15 years** Sql Server DBA experience (Sql Server 6.5 – 2016).
* Years working between business analysts/stakeholders/subject-matter experts and development staff to **architect database solutions**.
* Both **Development** & **Production** experience.
* Experience with **high availability** options including **Clustered Sql Instances, AlwlaysOn, Database Mirroring, Log-shipping** and **Custom Warm-Standby** servers.
* At least some production experience with **replication** (Transactional).
* Many **TSQL** **Stored Procedures**, **UDFs, Triggers**, **Views**.
* **Normalization**, **Design, Table** & **Constraint** **Implementation**.
* Use of **Embarcadero ERStudio** and use of **Redgate Sql/Data Compare. Performance** tuning, **Bottleneck resolution**, **Debugging** with Index Analyzer, Sql Profiler, Windows PerfMon.exe, Sql Server Debugger and execution plans.
* **Transaction** handling.
* **Backup** & **Maintenance**, disaster and recovery planning.
* **Dimensional Data Warehousing**.
* Support for **Crystal** **Reports** and **SSRS**.
* **Linked Servers.**
* *SSIS* package management including Sql Server **Integration Services Catalog** management.
* About **5** more **years** successful **VB with database admin & development** experience, and **FoxPro** application development.
* Several previous years in Xbase database development.
* **Close** Development **Teamwork** with analysts and programmers in **n-tier** and front-end (**ASP** web& **client/server**) development.

## EXPERIENCE:

**Pacific Gas and Electric – PG&E** **09/2011 – Present**

**SQL SERVER DBA (First 9-months as contractor, remainder as FTE)**

PG&E is one of the country’s largest gas and electric utility providers.

* Working environment around 1000 **Sql Server instances**, DB sizes ranged from miniscule to +**TB** **databases.**
* Primarily **operational DBA** work with plenty of development to automate said operational work.
* Installed/configured default and named instances of Sql Server 2005 – 2014 database engine, SSRS, SSAS, SSIS and Sql Server Integration Catalog Services. On Windows 2003 – 2014.
* Installed/configured/managed **HADR** including:
* Sql Server **Failover Clustering**.
* **AlwaysOn,** including **custom-scripted** (with some **Powershell**) re-configuration of automatic failover partners and voting and custom-scripted Sql Server Agent job enabling per primary/secondary status of availability groups (AGs) , automatic TDE and AG replication thereof to all relevant availability replica servers.
* **Database Mirroring**, including **custom-scripted** Sql Server Agent job enabling per principal/secondary status mirror partners.
* **Transaction Log Shipping**.
* **TDE**.
* **SSL** connection configuration.
* Authored & managed **DR exercises**.
* Planned and implemented database and server **Migration** including SSRS, authoring **custom scripts** to script linked servers, database users/logins/server & DB level permissions and role memberships.
* Frequent diagnosis of **performance** issues (**Query plan** analysis, **Perfmon**, **profiler**, index analysis with/without Database Engine Tuning Advisor/**sys.dm\_db\_index**.. DMVs, blocking & deadlock issues/myriads of Sql Server issues per work order/problem ticketing system (Remedy).
* **SOX** databases evidence collection and reporting requirements, including authoring **custom** **scripted** trace data collection infrastructure (including **partitioned sliding window** for storing trace data for 1.5 year duration).
* **Custom scripted** our database **backup** routines utilizing Sql Server native backups, **IBM Tivoli** and **EMC DBBoost** (**DataDomain**), and regular SSAS database backups.
* **Custom scripted** routine **database maintenance** index rebuild/reorg & statistics update procedures.
* Helped plan and implemented **application database upgrades** including SSIS packages, SSRS, SSAS databases for numerous internal and 3rd party application databases.
* Familiar with **Integration Services Catalog** usage.
* **Troubleshoot** myriad end-user issues over these thousands of Sql Server instances on a daily basis.
* Provided **on-call** commitments and/or irregular hour commitments as needed.

**Apex Systems, Inc.** **07/2011 – 09/2011**

**SQL SERVER DBA (contractor at McKesson)**

McKesson enjoys a huge presence in the healthcare industry in medicines, medical supplies and healthcare IT, and has done so for many years. Apex Systems is a very large IT staffing firm involved in government, healthcare, financial, IT, energy, consumer and industrial services throughout the United States. I had the privilege of working at McKesson to fill-in for a fine DBA on sick leave.

**Responsibilities:**

* Working environment **3000+ databases**, **250+ Sql Server instances**, DB sizes ranged from miniscule to **16 TB databases** and numerous **SOX** databases.
* Performed a myriad of various **operational DBA** tasks.
* **Worked with** **developers** on security, data migration and other issues.
* Worked with BCM **Remedy** to handle a myriad of incident/configuration tickets.
* Filled **database security** access requests/researched existing security situations.
* Filled requests for **SSRS** report permissions.
* Researched **locking/blocking & poor preforming query** issues with **Profiler & DMVs**.
* Installed/helped **install** new **Sql Server** **2008 R2** instances (some clustering).
* Set-up new servers post-installation with databases, logins, users, jobs.
* Copied databases from environment to environment with Sql Server native **backup/restores** & **Quest LiteSpeed**.
* Helped with **migrations** of entire **servers**, single **databases** and/or **customized data migration** between Sql Server insteances/servers.
* **Wrote scripts** display user rights/permissions, to script server configurations, logins, linked servers, operators, etc. for server migrations and display database files & space usage.
* Implemeted **linked servers** & linked login security and resolved linked server issues.
* Researched **Sql Server Agent** job issues.
* Installed/updated some **SSIS** packages.

**Time-off to deal with aging parents.** **4/2010 – 7/2011**

**Did some SQL DBA work informally.**

Two aging parents, one out-of-state, one in-state. Required travel and much personal time. Issues are resolved.

**Daegis, Inc.** **11/2008 – 4/2010**

**SQL SERVER DBA**

Daegis, Inc. is a multi-national corporation that assists in the legal “discovery” process by extracting, cataloging and indexing electronic documents (i.e. email and other files on disk/other durable media) and assists attorneys in retrieving reviewing these documents per their relevance to court actions under consideration.

**Responsibilities:**

* Designed database objects (**Embarcadero ER Studio**) from analysis of written/non-written specs.
* Wrote **smart DDL** app-version upgrade **scripts.** Smart **=** intelligent enough to sense the need for the upgrade from current state.
* Wrote many **stored procedures, UDFs, views, triggers, upgrade scripts.**
* Managed Sql Server security/access/permissions, particularly schema-based security.
* **Diagnosed and fixed performance issues in development and production environments.**
* **Authored policies/standards pertaining** to database use, authoring of executables and designing of database objects.
* **Worked closely with upper-tier developers** to satisfy their needs, advise/worked with them on implementation details related to lower-tier architecture (middle-tier and/or back-end) processes.
* **Worked with business analysts** to interpret high-level requirements into low-level database entities.
* Worked with **Sql Server 2000/2005/2008.**
* **Automated** configurable **backups** and **maintenance** for all production and development servers including **smart index rebuilds** (smart = indexes were not rebuild unless they were sufficiently fragmented and a sufficient number of pages).
* Automated hard drive/database object space monitoring and notification.

**EBSCO Industries, Inc.** **10/2007 – 11/2008**

**SQL SERVER DATABASE ARCHITECT**

EBSCO provides libraries, scholarly and other interested entities with searchable information about published content from most vendors, publishers and titles. EBSCO has been in business since 1937 and is a Fortune 200 privately owned company.

**Responsibilities:**

* Managed day-to-day database operations on **multiple 100+ GB** (**up to 260GB**) databases including **backups**, **maintenance** (CheckDB, index rebuilds) on numerous **A/P clustered** **servers** and single instance 64 and 32-bit servers.
* Dealt with **monolithic, striped, full, differential, transaction log and file and file group backups**.
* Worked with others on **disaster planning**.
* Completely **automated backup** and **automated maintenance** on all of my servers
* Set-up and monitored **transactional replication** among these databases.
* Installed and Monitored **SSIS package** for **ETL**.
* Helped **develop SQL coding standards** and standards for use of **clustered vs. non-clustered indexes**, **constraints**, **temp-table vs. table variables, triggers, UDFs** and **views, implementation of business rules**.
* Attended **requirements reviews** to prospectively garner business entity information to do **forward-thinking** database design (**ERDs**).
* Provided consultation to developers on **database design** and **coding practices**, as well as uses of replicated data and SSIS package usage.
* Used **Embarcadero** **ER Studio** in database design.
* Used Redgate Sql Compare/Data Compare
* Responded to change requests and bug-fix research and implementation.
* **Aided developers** with restoration of production for development purposes.

**Aristocrat Technologies, Inc.** **6/2005 – 8/2007**

**SQL SERVER DBA**

Aristocrat Technologies, Inc. is a multi-national corporation that produces gaming hardware, complete suits of gaming-system software and game software that will work with both its front-end hardware, i.e. slot-machines, and those of other manufacturers.

**Responsibilities:**

* Performed database design with via **Embarcadero ERStudio** per written specs and communication with business analysts.
* Managed **database creation**, **security**, **maintenance** and **backup** for development servers.
* Managed developer security/access/permissions in development databases.
* Diagnosed and fixed **performance** problems in development environments.
* Wrote **stored procedures, UDFs, views, triggers** for reporting various slot-machine related revenues from complicated legacy schema.
* Architected, implemented new real-time player-rating system for table-games, from table **DDLs** level to insert/update/delete stored procedures and data-retrieval stored procedures level (from the ground up). This is a work in progress.
* **Wrote SQL patches** to be used in application version upgrades of tables, procedures, views, etc., that were intelligent enough to NOT upgrade database objects that didn’t require upgrading, even over multiple versions.
* Created and maintained databases for use by upper-tier developers.
* **Worked closely with upper-tier developers** to satisfy their needs, advise/worked with them on implementation details related to lower-tier architecture (middle-tier and/or back-end) processes.
* **Worked with business analysts** to interpret high-level requirements into low-level database entities.
* Worked some with **Sql Server 2000/2005 DTS and SSIS**.
* Assisted with and helped develop reports with **Crystal** **Reports** and/or **SSRS**.
* Used Redgate Sql Compare/Data Compare

**ENVIRONMENT:**

**SQL Server 2000/2005 Development Tools, W2K3**

**Gatelinx, Inc.,** **5/2003 – 10/2004**

**SQL SERVER DBA**

Gatelinx, Inc., is involved in call-center sales of various satellite television products and develops proprietary software enabling internet-based voice, video and data applications. (www.Gatelinx.com).

**Responsibilities:**

* Recommended **system configuration** for system new and existing systems.
* Created and implemented **backup/maintenance** and **disaster/recovery plans**.
* **Scheduled jobs**.
* Managed database security.
* **Modeled** entities, **designed and implemented** **OLTP** and **Dimensional** **Warehouse** databases for new and existing applications.
* Created databases, tables, relations, constraints to implement modeled entities.
* Wrote & **performance**-tuned **many stored procedures/views/triggers/UDFs** to implement **OLTP** processes and provide reporting capabilities in dimensional warehouse databases**.**
* Created some **OLAP** Cube-to-Excel pivot table services reports, scheduled & monitored OLAP cube populations.
* Wrote many stored procedures, DTS packages, etc. to **ETL** dimensional warehouse databases.
* Created numerous **DTS** **packages** for numerous and various purposes including data warehousing.
* Administered **linked servers** to aid in populating data warehouse databases on remote servers as well as for populating remote transactional databases.

**ENVIRONMENT:**

**SQL Server 2000/, W2K**

**Howard Systems International** **12/2002 – 5/2003**

# SQL SERVER DBA (short-term contract in County Government environment)

**Responsibilities:**

* Recommended **system configuration** for system purchases and existing systems.
* Created and implemented **backup/maintenance** and **disaster/recovery plans**.
* **Scheduled jobs**.
* Planned, implemented and administered **availability options**:
* **Log shipping**
* **Warm standby**
* Created and implemented **Sql Server version upgrade** plans for v6.5 to 2000.
* Wrote **stored procedures/views/triggers/UDFs** for monitoring jobs etc.
* Created numerous **DTS** packages.

**ENVIRONMENT:**

**SQL Server 6.5/7.0/2000/MSDE, Windows NT 4.0, W2K**

**Mdeverywhere, Inc.**  **9/1999 – 11/2002**

# SQL SERVER DBA

Mdeverywhere produces a mobile computing platform providing healthcare solutions at the point of care. Its suite of products seamlessly integrates charge capture, voice dictation, order entry, and useful reference tools to build efficiency and productivity into physicians' workflow.

**Responsibilities Overview:**

Provided years of very effective **database administration** and development as company grew from a 12 person company with two clients and a client-server app to up to a 70 person, multi-million dollar Research Triangle Park, NC company with over 30 very well known large private and academic medical practice clients and growing through 5 successful versions of our products, a web-based ASP app, 3 versions migration of **MS SQL Server** (6.5 – 2K), 2 versions of Windows OSs using clustered servers and dedicated reports server and 24/7 onlineoperations.

**Administration:**

* Produced an **administrative database and front-end VB applications** to **automate the creation of new sites transactional and reports databases** and provide for the proper application version identification, for the proper client, consistent filenames, consistent database and user naming conventions on the proper servers and for unique database-specific logins with derivable hexadecimal-like passwords**. This process infrastructure** automatically **provided backup and maintenance** ( DBCC CheckDB, defragmenting indexes, file shrinking, updating statistics, recompiling stored procs)**, scheduled job execution, data warehousing** and the retrieval of a client’s users/passwords and other client-specific data for administrative purposes. This saved at least many person hours for each set-up or conversion and simplified the process such that, in my absence, others could perform a site database setup with minimal initiation.
* Provided **backup strategy** that allowed for redundant databases backup files and multiple paths of restoration should any backup files be corrupt.
* With aforementioned administrative database infrastructure and, created processes that ran hourly to read the latest full database backup subsequent log backups and script restorations of all client databases to their proper files, thus making restoration a much more expedient process in the case of catastrophic loss.
* Recorded statuses of aforementioned and other **administrative and scheduled tasks** and, when tasks **finished, reported problematic results** via **Sql Mail** ans **SqlAgent Mail** to my email beeper when jobs finished.
* Administered **linked servers** primarily to aid in populating data warehouse databases on remote servers.
* Also, master database procs and functions were written to provide scripts for copying data from one database per table per field per like datatype for our product version conversions, checking the status of scheduled jobs/databases and email concerned parties with results of queries or other appropriate status data, grant or revoke permissions on different types of database objects, compare tables between databases, perform all-table **DBCC** operations for a given database, developed and run **DTS jobs** and/or OS jobs, etc.
* Used **MS Certificate Services** to create certificates used with Sql Server 2K to **enforce SSL encryption** of all data with Sql Server.
* Installed **service packs** and **patches** on servers with notifications of **Windows Update**, Microsoft **Product Security notifications**, and MS’s **hotfix checker** (hfnetchk.exe).

**Development:**

* Provided well-designed **databases** with **normalized relations**.
* Provided efficient **primary and foreign keying** and many **appropriate constraints** and **triggers** (including **instead-of** and **after** triggers) to ensure data integrity and correctness and enforcement of business rules.
* Many very **complex stored procs** were written/rewritten, all of which were done with **index analyzer** for the effective creation of indexes and efficient data retrieval.
* Stored procs were created/changed to provide effective **transaction and error handling** providing atomic back-end workflow otherwise not present, and allowed for much work to be combined, thus unburdening upper tiers.
* Many utility stored procs and **user defined functions** were written to satisfy frequently needed services such as bitmap operations and passing multiple unknown numbers of values in a single parameter, encrypting and decrypting data and transaction management, producing derivable passwords, etc.
* **Warehoused** reports data in **star** and **snowflake schemas** for each site nightly and administrative data from our servers and some off-site servers to tell us what doctors where using which parts of our products and how they were using them, thereby providing marketing and billing information..
* Created **DTS packages** for and bcp routines for **ETL**.
* Developed infrastructure for reporting (**Crystal** **Reports**).
* **Provided and briefed developers** on diagrammatic depictions of data objects for their understanding of database (either Sql Server Enterprise Manager Diagrams or **Visio**-created annotated **ERDs**). On development server provided developers with read-only access to stored procedures, trigger table structures for their understanding (and input or suggestions for overall improvement) while allowing them to change their development data to meet their needs independently.
* Instructed and provided examples of uses **of ADO.Command, Parameter, etc objects** to pass and retrieve output and return values from stored procs.
* Helped debug and streamline processes using **Sql Profiler** in conjunction with middle tier/front-end processes.
* Created **numerous DTS packages**, both temporary ad-lib and permanent, for both input of data and for supplying other administrators with warehoused site statistics.

**ENVIRONMENT:**

**SQL Server 6.5/7.0/2000 TSQL, Visual Basic 6.0, Windows NT 4.0, W2K, Clustered Servers**

**Global Recruiting Solutions (GRS)** **5/1999 – 9/1999**

# Senior Software Developer

GRS produced a client/server and web-based recruiting through hiring management solution for large distributed companies worldwide.

**Responsibilities:**

* Wrote many TSQL **stored procs** to provide transactional database interface and for providing reports server with **warehoused** data in **star schemas** for **Business Objects**. Developed standard reports and **data objects** for users to develop their own reports using Business Objects.
* **Created/normalized tables**, **created triggers**, **primary/foreign keys and other constraints**, **indexes**, **backup & maintenance strategies, using DBCC**, etc.
* Developed **DTS packages** and **Visual Basic interfaces** to provide end-users with various formats of database output.
* Maintained, enhanced and upgraded existing client applications and middle-tier components via MTS/RDS.
* Developed middle-tier procedures to use **ADO connection, recordset, command, parameter objects/collections** or data environment to use aforementioned stored procs.
* Establish efficient functionality and system correctness by **directly interaction with end users**.

**ENVIRONMENT:**

# Visual Basic 6.0, C, Sql Server 7.0 TSQL, Windows NT workstation/servers, Win 95/98

**Modis IT 5/1997 – 5/1999**

**Software Consultant**

Modis is among the largest IT consulting corporations in the US offering a very wide range of information system services

# Responsibilities:

* Very much improved maintainability, robustness and reliability by providing greatly improved transaction processing and database error handling in writing many **TSQL stored procs** which segregated front-end and user interface processes from back-end database processes.
* Entire database **administration responsibilities** as well as the **database design and development**.
* Provided all database administration and management, **backing-up**, **DBCC** maintenance, **creating logins**, **users**, **tables** and **all types of constraints, indexes, etc**.
* Maintained, enhanced and upgraded existing client-server logistical system for routing/tracking automotive parts in transit.
* Developed new user interfaces and front-end objects in **Visual Basic** to give users proper access to existing business objects and to back-end data.
* **Much improved readability and maintainability** for both stored procs and **Visual Basic code.**
* **Documented** and modularized much non-documented in-line existing code, via functional decomposition.
* Established efficient functionality and system correctness by directly **interaction with end users**, their supervisors, and the company owners.

**ENVIRONMENT:**

**TSQL 6.5 back end, Visual FoxPro back end, Visual Basic 5.0/6.0 front end & middle tier Windows NT Server 3.51 & 4.0, Win 95/98, DOS**

**Analysts International Corporation (AIC)** **9/1996 – 5/ 1997**

# Programmer/Analyst

Analysts International Corporation is an international contracting corporation offering a full spectrum of computer and information systems services.

**Responsibilities:**

* Analyzed, designed and implemented database for U.S. E.P.A. grants and fellowships administration.
* 100% responsibility for **development of both back and front-end**.
* **Analyzed, designed, implemented and coded Visual FoxPro Application for a Visual FoxPro database.**
* Traveled to Washington D.C. periodically to interact directly with customer (E.P.A. officers) and end-users to **perform requirements and functional analysis** and evaluation of implementation correctness.

**ENVIRONMENT:**

**MS Windows 95, DOS, Visual FoxPro 3.0**

# Automated Information Design 7/1995 – 9/1996

# Software Analyst

***Employee-Of-The-Month: August 1996.***

Automated Information Design was a systems integrator providing network installation and support, PC installation support and custom software development for barcode and RFID technology.

**Responsibilities:**

* As lead developer, **developed 100% of back-end,** including **stored procedures, triggers, indexes**, and much of front-end of time-and-attendance product in **Visual FoxPro 3.0.**
* Wrote custom **data-collection application in C++** using custom self-validating data objects based on custom self-linking doubly linked list class instantiated from barcode and/or keyboard data-entry.
* Wrote customized .**FLL ( FoxPro .DLL) programs in C.**
* **Wrote C++ Windows application** to communicate with Micron Ambit RFID device.
* Achieved Micron Certified Systems Expert status for Ambit RFID devices.
* Wrote comm scripts to enable hand-held scanner to communicate via modem directly with IBM RS6000 via serial interface.
* **Installed workstation shells for Netware 4.x: IPXODI, MLIDs, VLMs**
* **Installed PC hardware from main board up.**

**ENVIRONMENT:**

**Visual FoxPro (VFP) 3.0, FoxPro 2.5 & 2.6, C, C++, Micron Communications Corporation’s Ambit, Intermec Janus 2020, MS Windows 3.5 workstations & servers. Windows 3.1x, Novell Netware 3.1x, DOS**

**Ann Arbor Computers 3/1995 – 6/1995**

# Programmer/Analyst

Ann Arbor Computers produced PC/AIM, an automated inventory management produce for warehouse inventory management.

**Responsibilities:**

* Modified existing modules, analyzed designed and wrote new modules for PC/AIM.
* Installed workstation hardware and software shells for Netware 4.x

**ENVIRONMENT:**

**Clipper 5.2, FoxPro 2.5, C, Windows NT 3.51, Windows 95, Novell Netware 3.1x and 4.x, DOS.**

**Toyo Seat Corporation. 7/1992 – 3/1995**

## Programmer

Toyo Seat was a supplier of car seats and other accessories for Ford Motor Company and other automobile companies.

**Responsibilities:**

* Designed & wrote PC/network based **front and back-ends** of Just-In-Time (JIT) inventory control system that successfully handled all production, shipping, scheduling, bill-of-materials, ordering and daily updating of inventory database, including front-end interfaces for date-entry and reporting.
* The company used this system successfully while I was there and for years thereafter.
* This allowed the company to downsize from a Hitachi small mainframe system and saved the small company $35,000/yr in maintenance and support alone, not to mention expensive hardware/software upgrades.
* Installed hardware NICs, network cabling, disk drives, video cards, optical scanner cards, memory, etc.
* **Performed network administration tasks Added/deleted users, assigned rights, mapped drives, established server and P-to-P networking, mail, file sharing, fax sharing, etc.**
* Advised on purchases of new hardware &software.
* Assisted users with various computer-related problems.

**ENVIRONMENT:**

**C, Dbase 1.5/2.0 for DOS and 5.0 for Windows, COBOL, Windows 3.0, 3.1x, Windows 95, Novell Netware 3.1x and 4.x, DOS.**

# Harris Data Services Corp. 4/1991 – 7/1991

**Software Engineer**

Harris Data Services, a subsidiary of the Harris Corporation, is a software development contractor for the U. S. Military.

# Responsibilities:

* Helped analyze existing Ada/Oracle interface code.
* Performed preliminary requirements analysis and design of on-line help manager.
* Researched POSIX standards for operating systems interface
* Formally briefed colonel-level USAF officers on status/progress of above.
* Successfully completed sources in OOA, OOD and Ada programming.

# ENVIRONMENT:

# VAX 4000, PCs, VAX VMS, Windows 3.0, 3.1x, DOS.Ada

**EDUCATION**

DEGREE: B.S. University of South Alabama, Mobile, AL, August, 1990

MAJOR: Computer Science, Mathematics

GPA 3.23/4.0

**REFERENCES**

Many excellent references /letters-of-recommendation available.