Ken Morrison

City, State ######
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OBJECTIVE   To provide innovative and accurate ways of seeing, manipulating and understanding data.

SKILLS

Data Science/Business Intelligence Programming **(SSRS, SSMS, SSIS)**	**SQL Report Writing** / Data Mining, Conversion, Cleansing, ETL
Datawatch Monarch modeling & scripting	**Talend Big Data** in Hadoop/SQL environment
Datawatch Enterprise Server dashboard programming	**JAMS** enterprise job scheduling and workload automation
Excel design and programming	**IBM Cognos BI Development** — Report & Query Studio, Framework Msgr., Transformer
Visual Foxpro programming & reporting including DOS Foxpro conversion	**Tableau** programming
Pascal, Assembler programming	

PROFESSIONAL EXPERIENCE

Business Intelligence Programmer, employed by Company A, City, State (2013 - Present)
- Hired as an SSRS Developer, I have spent more and more of my time on many of the other elements which are part of a complete reporting environment, from Talend Big Data, Datawatch Monarch, Tableau, to the MS standards of SSIS, SSMS and SSRS for presenting that accumulated data in an accurate, comprehensive and enlightening way.
- And while my favorite task in BI is to find new and more effective ways to help report users envision data and recognize trends, here it has become more about achieving 100% accuracy while vastly reducing run times and improving methods of delivery, a great need in most data intensive environments. I have made huge contributions towards those goals, including defining and changing the company standard data source previously used in all report table joins and aggregation, resulting in a vast improvement in accuracy. Procedures, functions and views I developed are in universal use in most new reports and many older revamped ones.
- I also created Company A's first system for emailing reports with full automation and email report logging, including designing the database which controls it. I have also become a primary source of troubleshooting data issues, whether bad data, poorly performing processes, system bottlenecks or other. Being inventive in nature, I delight in seeing systems working well, and have a penchant for developing ways of achieving that. Never satisfied with poorly performing processes, I have gently pushed for improvements from early in my employment, using demonstration of capability and performance with examples. My efforts, brought about Company A's first use of a UAT server, vastly improving our testing and QA process by mirroring live data while maintaining a separate reporting test bed for that data.
- As the de facto Senior Report Developer, I am the one tasked with creating the really difficult reports, typically from multiple servers and text sources, and I welcome that responsibility.
An example was a report from a mortgage transfer document which contained about five thousand fields across eight pages, a task previously rejected by our programming department as not possible. The print source files range from tens of megabytes to about six gigabytes in length. I accomplished the task with thirteen Monarch models, eight SSIS packages, eight SSRS reports, and a similar number of tables, procedures and functions and had to develop totally new methods to put so many fields into the SSRS reports. Like

all of the harder reports I have worked on, the toolsets and techniques gained are invaluable.

- Myself and one other programmer are currently restructuring a very poorly performing group of databases in one of the most important reporting systems in the company. It will reduce storage needs by a factor of a hundred, and will improve reporting speed similarly. We are also tasked with investigating moving additional servers and databases into MariaDB system, which I view as a welcome and unique opportunity to again restructure a rather poorly set up legacy system. The reduction in necessary storage, once again, will be huge.
- I feel great satisfaction knowing I have really helped the DMI reporting environment and am continuing to do so.

Senior SSRS Report Writer, employed by Company B, City, State (2012 -2013)

- As Senior Report Writer I handled the majority of Company B's reporting needs, modifying existing client reports or creating new reports as desired, enhancing existing standard system reports, and correcting reporting issues when such might arise. I specialize in supplying exactly the graphical representation clients desire and supplying the most insightful of Business Intelligence tools, with drill-down, drill-through, sub-reports, dashboards and extensive charting and did so for clients like Reynolds, FedEx, Prudential, and others, with intuition to enhance what they require to additional levels of Business Intelligence provide them with I converted to permanent status after a four month contract through Robert Half. I additionally found and helped correct multiple data issues (such as with new accounts) while developing new reports because of the coherent data view new reports often engender, even when working with test data. I have developed many reports that are giving customers totally new ways of interpreting their data and am in the process of finalizing a new version of an Account Analysis report that will give Company B a totally unique method of reporting on Client's banking costs that is totally new to the X industry and a method that is sure to translate into market share. As always, my goal is to vastly improve Reporting functionality and do so with maximum accuracy.

SQL SSRS Report Writer, subcontracted to Company C, City, State (2012)

Contracted to build completely new and essential reports spanning two separate databases, one the data source for X and the other a customized X system, with no effective keys between the two systems. Using SSMS and SSRS, the views and procedures I programmed and the reports based on them, gave the company managers reporting capability they stated to have never had before. The core logic I developed as the basis of all these reports supplied additional functionality to also identify data problems between the two systems, such as multiple Ids, misspelled names, bad addresses, emails or phone numbers, and other invalid data issues. The reports I deployed also provided separate dataset driven parameter selection, drill-through capabilities along with interactive sorting and customized selective data export.

SQL SSRS Report Writer, employed by Company D, subcontracted to Company E, City, State (2012)

Contracted primarily to build new reports and/or make modifications in existing reports or forms, adding additional columns and selection filters, with additional grouping and drill down capability to supply improved Business Intelligence. Because of much invalid data found in queried tables, also built validation queries to report on and cleanse the bad data and added programming to parse it inline to present it correctly in the output report.

Foxpro/SQL Programmer, employed by Company F, subcontracted to Company G, City, State (2011 – 2 month contract):

Contracted to modify health care insurance check printing, mailing and documentation program, to add new functionality to feed the data into Accuzip for address

verification or Change Of Address correction, and then through USPS Intelligent Mail Barcode assignment for tracking numbers and generation of barcodes. Also, detected and corrected programming fault which allowed invalid data through the program resulting in much longer run times and error logs 100 times larger than they should be (which necessarily are maintained). Rebuilt sections of the existing Foxpro code to utilize SQL select statements where doing so would decrease run time, all achieved with very little documentation.

Self-Employed Consultant to Company H. City, State (2010 – 2011):
Business Intelligence programming, data cleansing, ETL and Cognos installation, primarily using Cognos Framework, Transformer, Report Studio, Query Studio, SQL Management Studio, SSRS, Oracle SQL Developer, Apache, Toad and Foxpro on multiple projects as the need arises. Primarily worked at doing Cognos 84 setups and demo setups to show product comparisons between MSSQL and Cognos systems. During this period and the Company K's period, also provided consulting as Cybernet Systems, same as described below the Integrity Payment Systems position.

Self-Employed Consultant, subcontracted to Company K, City, State (2010 to 2011):
Eight month part time conversion of Foxpro 2.6 based ERP system to Visual FoxPro 9 (completed). Decompiled legacy Foxpro ERP executable to code, converted code to VFP 9, reverse engineered, documented code, and recompiled to VFP9 executable, enabling easy upgrade path to SQL database and dot NET, and correct memory usage in current OS, such as Win7. Current version loads and operates about 5 times faster.

Foxpro/SQL Programmer, employed by **Company I,** subcontracted to **Company J,** City, State (08 to 09):
- Business Intelligence - developing adhoc queries, procedures, functions, views, programs, etc. for reports, data mining, cleansing & verification, and user program generation using Microsoft Visual Studio SSRS and VFP, working with SQL and legacy Foxpro transaction tables, utilizing advanced SQL programming with extensive and ofttimes complex SELECT statements including Joins, Unions, Subqueries, Procedures, UDFs, Grouping, Scalar, Aggregate, Array functions, etc.
- Commonly used extensive program troubleshooting including my own debugging procedures utilizing UDFs within Select statements, only engaged while running in debug mode.
- Also tasked with converting Foxpro 2.6 forms, reports and data entry programs to VFP8, but
- commonly asked to do ad hoc queries and build new reports, tasks I love. Supplying new ways of seeing important and relevant data is a rewarding aspect of database programming. Created programs to verify and monitor the transaction tables, such as for corruption or invalid data, continually backing-up the changing data and reporting on the monitored data since the tables were Dos Foxpro, (a planned for transactional system had yet to be implemented). My programs, and the backup data they created, were twice used to restore otherwise lost data.
- Developed many new reports to enable improved decision making and drive current business
- functions, using Visual Studio SSRS and VFP. Eventually a half dozen were automatically being run every day, reporting in Excel or PDF form to defined personnel through email. Also involved in the planning and preparation for conversion to a fully transactional SQL
- system, as part of a five man programming team, using daily meetings to immediately address problems, issues and goals, as determined by upper management.

Self-Employed Consultant, dba **Company K**, City, State (06 to 08, 09 to '11, '11 to present)
Note: From '10 my focus on this consulting work has been very sporadic:

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- For one main client (X University), setup, troubleshooting, and support of their campus-wide access, lock and security system, including query generation and programming for resolution of their SQL database issues.
- Full hardware/software installation, maintenance, and repair: Computers, servers, printers, etc.
- Specialty services, such as Data Recovery and/or System restore, setup and management of remote access.
- LAN design, wiring and configuration, including troubleshooting and monitoring using tools such as Sniffer.
- Server support and upgrades (necessitating very little LAN interruption, using off peak hours).
- Generally would use all of the techniques used in all of my IT positions, at one time or the other.

IT Manager, Company L., City, State ('98 to '06):
- **Administered** Company L's complete computer infrastructure and the **VFP/SQL** based, **X ERP** system including **ETL**, system implementation and database maintenance.
- Performed **SQL report programming** and form customization for the **ERP** system. Reports I created, generally at the request of a department head or the CEO, with enhancements I would suggest, became Company L standards and were primarily relied on for day to day operation, to this very day. Report examples follow:

1. **Period to Period Comparison Sales** report which could compare any period to any period (Year, Quarter, Month, Day or Days) and report Sales of Product Lines, Products, Distributors, Salespersons, etc. and show totals and differences in dollars and/or quantities and percentages.
2. **Top Level Drill Down Procurement** report for Purchasing which detailed the procurement status for all of the parts of all or any top level products with procurement warnings for every level of part for all selected top level parts.
3. **Job Order Status** report for all or selected Job Orders, showing breakdowns on timelines, overruns, quantities, etc., for product assembly lines or stations and based on current orders and Demand Planning projections.

[Being inventive in nature and fully understanding the report requirements through effective communication with those desiring the reports, I commonly suggested and added enhancements which were almost always approved because of the ease of setup, selection or automation options and the ultimate improvement in how effectively data was presented and realized. Not only did my many reports improve departmental and company productivity but they became totally essential.]

Developed real time live backup of the company server and database to a backup server for easy switchover in case of failure (which only occurred once from 2002 to 2006). My expertise allowed Company L to discontinue the $27,000 yearly X maintenance contract. Managed all computer related operations at Company L, including Win9x, WinNT, Win2k, WinXP, and Mac workstations, ranging from office to Macintosh graphics to engineering CAD and NC machine workstations. Planned for all IT services recommended hardware and software needs, and implemented change. Made repairs when necessary to computers, high-speed networked or color or desktop laser printers, large format CAD printers, production Barcode printers, servers, Ethernet switches, and even the Fanuc CNC controls in the production shop, to keep the production and office systems constantly online.

Technical Manager & Minority Owner, Company M, City, State ('96 to '98)

- Managed the technical development of a consumer product known as X.
- Provided most of the product and technical design, patent support, module programming, testing and troubleshooting for the controlling software running under embedded DOS system, utilizing Pascal, Assembly and DSP programming. Provided the necessary Assembler programming to correct overly time intensive real-time loops where our contract software engineers could not, a massive development issue.

- Designed and engineered the custom parts, such as the bezel, case, keypad, and LCD, utilizing CAD and graphics editing software to generate the designs and photo realistic rendered images of the product.
- Designed the custom electronic digital and analog circuitry, and the Printed Circuit Boards; primarily responsible for sourcing and procurement of parts and vendors.
- Provided constant guidance to engineering for production.
- Substantial patent experience; Co-Patentee and primary inventor on **seven patents**, one of which is licensed to X & Y; Authored much of the patent text and graphics; Provided
- primary guidance on copyright law issues and successfully argued those issues to cause our hired law firm to change its given opinion.

EDUCATION

IBM Cognos 8 BI & Advanced Reporting, Framework Mgr. & Transformer, X, City, State

X ERP System Administrator and Report Writer Certification, X, City

University X, Integral Calculus and Analytical Geometry.

University Y at X consisting of 1600 hours of classroom study in Electronics, including related elements of physics and math (such as Differential and Integral Calculus, Algebra and Trigonometry); Comprehensive on-the-job training including environmental testing (vibration/shake tables, thermal cycling, ESD), Metrology Lab (verification and calibration), QA testing, instrument repair, machining, assembly, wiring, component testing, and virtually all elements involved with the production of X; In the seventh year of my employment there, became head of Y, responsible for all electronic repairs in the complete facility. Continually pursued substantial self-education in electronic and mechanical engineering, CAD, CAE, computer and network technology, DSP technology, programming, and programmable logic. Have spent, and continue to spend, considerable time perusing the technical articles, product announcements and ads of the major trade journals, such as SQL Server Magazine, EDN, Electronic Design, Electronic Products, Design News, Machine Design, Scientific American, Science, Sensor News, NASA Tech Briefs, and others. Adept at the use of CAE programs, such as Autocad Inventor, CircuitMaker, Traxmaker, Electronic Workbench EDA and other technology related software. Adept at Cognos, Visual Studio, CAD, CAE, graphics editing software such as Corel, and office applications such as Microsoft Office and OpenOffice and dozens of others. I am extremely computer literate.

ADDITIONAL EXPERIENCE & INFORMATION
Redacted to protect candidate's identity.