

JIM HORN

Microsoft SQL Server Database Developer, Architect, BI, and Manager with an MBA.
Currently employed full-time, and passively open to >95% remote only positions.

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SKILLSETS

SQL Server SSIS, SSRS, Data Warehousing, Business Intelligence, Power Pivot, Dashboards.

Other Databases and ETL tools Oracle, Access, Informix, DB2, Talend, DataStage, Salesforce.com, Pragmatic Works.

Business Intelligence Power Pivot, Power Query, Power View, Power Map, Power BI Desktop, Excel VBA

Emerging SQL Skills TFS, Git, Azure DevOps, Redgate SQL Change Automation (SCA), Scaled Agile Framework (SAFe), SQL Server Analysis Services (SSIS) Tabular, Data Mining, PowerView, PowerQuery, PowerMap, DAX, MDX, XML, VB.NET Scripting, C# Scripting, Power Shell, Data Modeling, Master Data Services, Data Quality Services, Change Data Capture, Full Text Search, Service Broker, Salesforce.com SOQL, Facebook API, HubSpot API, IntelliJ, Python, Subversion, Confluence.

EDUCATION

Masters in Business Administration (MBA)	Service Operations	University of Minnesota	1997
Bachelors of Arts Degree (BA)	Accounting	Michigan State University	1991

MICROSOFT EXAMS PASSED – MCP ID 1370311

70-762, Developing SQL Databases (SQL Server 2016), January 2019 (MCSA)
70-761, Querying Data with Transact-SQL (SQL Server 2016), December 2018
70-461, Querying Microsoft SQL Server 2012, June 2013 (MCP)
70-069, Application Development with Microsoft Access for Windows '95 January 2000.
70-051, Microsoft Access 2.0 Application Development, May 1998 (MCP)

FULL-TIME EXPERIENCE

GreenDot	Data Engineer	November 2020 - Present
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SQL Server Developer for the Tax Products Group (TPG). Heavy T-SQL, code reviews, performance tuning, feeds and reports.

Contracts and employment as primarily a Microsoft SQL Server database developer

EY	Data Architect	January 2020 – October 2020
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SQL Server Data Modeler and Architect at EY supporting multiple App Dev teams with various SQL Server related needs such as requirements analysis, design analysis, development, and data modeling. Visual Studio, Git, Erwin, Azure DevOps (ADO), Redgate SQL Change Automation (SCA), Scaled Agile Framework (SAFe).

cx Loyalty	SQL Server Data Architect	November 2016 – December 2019
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SQL Server architect for a credit card loyalty rewards company with 30+ clients and 100+databases. SQL Agent jobs / table partitioning that handle archiving and deleting data, PCI compliance, Applications Development support, project estimating, mentoring junior developers, offshore development creation and review.

Travel Leaders	SQL Server Developer	June 2016 to November 2016
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Contract developer on the Consulting & Analytics team working on various SQL and SSIS projects and client data conversions.

Optum / Humedica	Oracle and Java Developer	October 2015 to June 2016
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Contract developer on the variable project team building custom Oracle SQL code in various datamarts to work with a Java Web application that is a Business Intelligence tool for health plan data.

Brightpeak Financial	Enterprise Data Architect	April 2015 to August 2015
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Responsible for Business Intelligence development, business unit engagement, and data architecture for a 70-person financial services company. SQL Server version product feature comparison, developed 10+ SSRS reports involving charts, graphs, cohort analysis, and a multi-report scoring model with datamart backend. Company later folded into Thrivent Financial, who later ceased operations.

Optum Health SQL Server Developer November 2014 to April 2015
Contract SQL developer building SSIS packages that consume Salesforce.com data and load a data warehouse. Change data capture, Slowly Changing Dimensions, buffer manipulation for very wide tables, notifications.

Sun Country Airlines SQL Server Developer March 2014 to October 2014
Contract SQL developer building multiple SSIS packages and SSRS reports, including SQL Server, Oracle, Informix, and Talend. Data Warehouse loads, Change Data Capture, File manipulation, custom logic, SQL role-based security, and scripting.

Genex Harvest States (CHS) SQL Server Developer July 2013 to February 2014
Contract SQL developer building multiple SSIS packages dealing with client ACH payments, ETL from DB2, JDEdwards, XML, and SQL sources into SQL Data Warehouses. Multiple SSRS reports. Web Services, encryption, custom calendar logic for bank open dates, Master Data Services custom ETL.

OptumInsight Sr. Consultant / SQL-BI developer February 2012 to July 2013
Project based consultant. Built three SSIS packages and 20+ SSRS reports for a STARS Dashboard project that manages Medicare providers. Built one Access front-end, SQL Server back-end workflow and auditing program. Other project estimation and mentoring duties as assigned. Data Warehouse loading, error/exception handling, rich-text format email notifications, custom file manipulation, Pragmatic Works Task Factory, VB.NET scripting, reports with multiple variables, reports that call other reports, grouping.

c2 IT Solutions / Insignia Health SSIS / SQL Developer November 2011 to January 2012
Contract SSIS and SQL developer building a package to import an 834 XML file and load data into client's SQL 2008 R2 database. Last production run was a 1.5 Gb file in 40 minutes. Heavy requirements gathering and elicitation and T-SQL. Custom data warehouse load logic, rich-text format email notifications.

Univita / Long Term Care Group SQL Server Developer and Manager January 2008 to October 2011
2009-2011 Data Services Manager responsible for up to a dozen local and offshore SQL Server SSIS-SSRS-TSQL-DTS and Access VBA developers performing around 200 ETL and BI projects a year.
2008-2009 Principal Programmer-Analyst working with SQL Server stored procedures, DTS and SSIS packages, and Access databases involving heavy analysis. Highly custom Stored Procedure, SQL Agent job scheduling, deployments, custom feed logging and reporting system.

Contracts and employment as primarily a Microsoft Access database developer

Fair Market Life Settlements VB6, SQL2K, Crystal, Access, Excel VBA November 2005 to January 2008
Responsible for all software development and support for a small financial services company. Two SQL 2000 databases with stored procedures and replication, two VB6 OO applications, two Access databases, over 200 reports using Crystal Reports, ASP, and Word mail merges, and a large third-party Excel spreadsheet with heavy VBA. Included contractor supervision.

Integris Metals (now Ryerson) VB6, Access, and MS Graph Developer May to November 2004, March to Nov. 2005
Contract Access XP, Visual Basic 6, and MS Graph programmer. Built a financial indicator tracking application with data-driven MS Graph functionality that exports to Mail, Reports, and PowerPoint. Build a Windows Explorer-like Knowledge Repository in VB6 that allows users to store and retrieve documents. Heavy Access VBA, Office VBA.

Chronimed (now BioScrip) SQL Server and Access Developer November 2004 to March 2005
Contract SQL Server and Access developer. Analyzed customer requirements, built a SQL Server data warehouse and Access reporting application for a medium-sized distributor.

American Express Access Programmer April 2004 to May 2004
Contract Access XP programmer for a sales unit. Built an annuity data entry, calculation, and reporting application complete with documentation in three weeks. Heavy Access VBA.

Target Senior Programmer/Analyst December 2003 to April 2004
Contract Access 2000/XP programmer for the Transportation Group. Built a distribution center inventory control and tracking application. Redesigned an in-house reporting database that captures scorecard-like data for Consolidation Centers, Distribution Centers, and Shippers. Some BA and business process re-engineering.

GMAC-RFC Senior Programmer/Analyst July 2003 to November 2003

Contract Access/SQL Server programmer for the ICG Group. Performing as lead developer for an Access/SQL application that performs data entry for mortgage due diligence teams. Heavy Access VBA, import-export, forms and reports.

Jostens Senior Programmer/Analyst 1999 to 2003
 Visual Basic and Access programmer for the Selling Chain Applications group. Supported and enhanced over 15 Access, five Visual Basic, and four ASP/Web applications used by an 800+ sales force to sell Jostens rings, yearbooks, and photography products.

Northwest Airlines Programmer/Analyst 1997 to 1999
 Microsoft Access 2.0/97 programmer supporting two large travel agent sales accounting applications for domestic and international travel. Supported a database which handled the Passenger Facility Charges by airport and its distributions. Also supported 15 data entry applications that were used to enter employee travel, related industry employee travel, benefits elections, and 401k elections.

Employment as an accountant

Mystic Lake Casino Finance and Systems Analyst 1995 to 1997
 Accountant and Microsoft Access Developer for the Hospitality Division. Responsible for reporting, general ledger, variance analysis, inventory control, and special projects. Created and supported multiple Microsoft Access accounting applications.

University of Minnesota Accountant to Senior Accountant 1993 to 1995
 Staff accountant for the AHPCRC and Plant Pathology departments. Responsible for general ledger, reporting, forecasting, payroll, effort certification, audits, internal service organization accounting, purchasing, and other duties.

General Mills Financial Associate 1991 to 1992
 Entry-level finance and accounting position for the Gold Metal Flour (then Sperry) and Export departments. Responsible for variance and cost analysis, audits, reporting, forecasting, analysis, and other duties.

PUBLICATIONS

Article Name	Date	Description
Microsoft SQL Server		
SQL Server: T-SQL recipe to create a million sample people (link)	July 2013	A how-to to create a table with a million rows of sample people with addresses, phone number, date of birth, and other demographic columns. The best uses are to de-identify existing data, or create realistic-looking data from scratch.
T-SQL: Identify bad dates in a time series (link)	Aug 2013	A lessons-learned of dealing with various insurance clients and their needs in identifying gaps or overlaps in a 1:M table time series.
Build your own SQL calendar table to perform complex date expressions (link)	Sep 2013	A demonstration of SQL Server T-SQL script that will build a calendar table, and demonstrate ways to easily query it to perform what would otherwise be complex date expressions.
SQL Server CASE Solutions (link)	Oct 2013	A demo of multiple T-SQL CASE block uses.
SQL Server GROUP BY Solutions (link)	Sep 2013	A demo of T-SQL GROUP BY block uses.
SQL Server Delete Duplicate Rows (link)	Aug 2014	A montage of common Microsoft SQL Server 'How to delete duplicate rows?' solutions.
Migrating your Access Queries to SQL Server (link)	Mar 2014	A 101-level overview of migrating your Microsoft Access queries to SQL Server Transact-SQL (T-SQL query language).
T-SQL: Normalized data to comma delineated string and back (link)	Aug 2015	Many times as a report developer I've been asked to display normalized data as a comma-separated string. Here's how to do it.
SQL Server Training (link)	Mar 2016	A montage of SQL Server training options.
Microsoft SQL Server and Excel		
Excel & SQL Server: Self Service BI to give users the data they want (link)	May 2014	How to build an Excel spreadsheet that allows users to enter select values via populated combo boxes and hit a magic 'Go' button that retrieves only that data from SQL Server based on those selections, using nothing more than standard Microsoft Excel functionality and an ODBC Connection.
SSIS Interview Tips and Tricks (link)	Feb 2016	Lessons learned during ten years of interviewing for SSIS and other ETL contract roles and two years of staff manager interviewing contractors.

Microsoft Access		
Table Based Access Variables (link)	Dec 2013	How to create your own variables in Microsoft Access that can be used anywhere and saved between user sessions, resulting in making life easier on users, make maintenance easier for developers, and frames up Super Awesome Developer Ninja Stuff!
Project Documentation		
Requirements Document Template for a Reporting Project (link)	Aug 2013	Based on my development experience as an SSRS, Crystal Reports, and Access developer over the years.
Requirements Document Template for an ETL Project (link)	Aug 2013	Based on my development experience as an SSIS developer over the years.
General Topics		
Contracting: How to go out on your own (link)	Mar 2014	A 'How I did it' of converting from a full-time employee to an independent contractor with my own business.
Top 10 Ways to Ask Better Questions (link)	Jun 2015	A Top 10 list of how experts can tailor their questions to get better answers.
Top 10 Ways to Write Rock Star Technical Articles (link)	Sep 2015	How to write articles for greater odds of being published and maximum points.
Custom Images from a Screenshot (link)	May 2015	Here's a quick and dirty way to create a custom image from a screenshot for use in Experts Exchange questions, articles, or any document using a Windows PC that does not require installing extra software.

VOLUNTEER EXPERIENCE

Experts-Exchange.com Volunteer 2004 to Present
 2015 to Present Page Editor, which involves reviewing technical articles for publication, and determining various award statuses.
 2013 to Present Topic advisor in the SQL Server zones.
 2005 to 2007 Co-Topic advisor of Visual Basic, VB Databases, VB Controls, and Microsoft Access zones.
 2004 to Present Answered questions and solved problems for website membership holders as a volunteer.
 Ranked #1 expert in Microsoft Access Topic Area (TA) April-May-June 2005 and VB Databases TA July 2006.

SQL Saturday Presenter & Board Member 2013 to Present
 2013: Presented SQL Server: T-SQL recipe to create a million sample people ([link](#)) to 30 attendees.
 2015: Presented SQL Calendar Table ([link](#)) to 25 attendees.
 2016: One of the PASS-MN Board ([link](#)) members that ran [SQL Saturday #557](#).

PART-TIME TEACHING AND LEADERSHIP EXPERIENCE

US ARMY NATIONAL GUARD Private to Captain (Part-time, weekends) 1985 to 1997
 Part-time member of the Michigan and Minnesota Army National Guard. Leadership training through Army R.O.T.C. and various Fort Knox-based courses. Served in increasingly-responsible positions supervising 11 to 71 soldiers.

ACADEMY COLLEGE Instructor (Part-time, evenings) May 2003 to September 2003
 Teaching Microsoft Office 2000 two nights a week to 14 non-computer programming students during Summer Term 2003.

EXECUTRAIN Instructor (Part-time, contract) March 2003 to May 2003
 Taught Microsoft Visual Basic 6-Development, Microsoft Access 2000/XP-Beginning to Development, and Excel VBA-Development to classes of two to 14 students.

BENCHMARK LEARNING Instructor (Part-time, contract) 2011 to 2012
 Taught three Access VBA classes.

BOY SCOUTS OF AMERICA Various Adult Volunteer Positions 2006 to Present
 Served for two years as the leader of a group of 75 Cub Scouts from first to fifth grade and 20 adult volunteers.
 Create schedule, assigned and managed leaders, provided overall pack direction, and lead monthly events.

VARIOUS Developer (Part-time, evenings) March 2003 to April 2009

Various part-time development and mentoring work with small business, mostly in Microsoft Access.

SOFTWARE SKILLS

Oracle	Less than one year working with Oracle SQL.
Microsoft SQL Server	11 years, data modeling, SSIS, SSRS, DTS, TSQL, staff management.
Microsoft Visual Basic 6 / .NET	4 years, built or supported six distributed applications.
Microsoft Access	10+ years, built or supported around thirty distributed and networked applications.
Crystal Reports	One-half year supporting existing reports
Microsoft MTS / COM+ / IIS	2 years of creating COM objects and maintaining development sites
HTML / DHTML / ASP	3 years, built or supported five applications.
Object-Oriented Programming	1 year, used on two applications.
Wise for Windows Installer	1 year, deployed four applications using Wise Installer 8 and WfWI 3.5
Windows Help/HTML Help	One-quarter year, deployed two applications in support of existing apps.
IBM Data Stage	Familiarization and some reverse engineering
Cognos	Familiarization

SOFTWARE ROLES

Staff Manager / Architect	Two years managing + architect for an ETL shop of up to a dozen developers.
Developer	Developed software in SQL Server, Visual Basic, Access, ASP, HTML, Java
Project Manager	Managed projects as PM on demand for projects I have developed or staffed
Project Lead	Supervised projects as Project Lead over other developers
Business Analyst	Facilitated business users requests for IS projects and reverse-engineered existing ones
Graphic Artist	Edited and created images in support for Web projects I have developed
Trainer	Trained others in Visual Basic and Access on-demand
Level 2-3 Help Desk Support	Created Help Desk diagnostic scripts and FAQ's to allow Help Desk to support app
Tester	Created and executed testing scripts for my projects and others
IS Business Liaison	Coordinated with business units to best translate their needs into actionable projects

SOFTWARE EDUCATION

Wise for Windows Installer for Developers	Mastering Visual Basic 6 Development (MOC 1013A)
Wave Interactive MCSD Study Kit	Mastering Web Application Development (MOC 1017A)
Ongoing technical training	Microsoft Access Basic, Intermediate, Forms and Reports, and Advanced Training

LEADERSHIP EDUCATION

IT Master's Program at Benchmark Learning	
Jostens Project Management Training	U.S. Army Armor Officers Basic Course
General Mills Total Quality Training	U.S. Army Armor Office Advanced Course (Phase I)
Dale Carnegie Management Seminar	U.S. Army R.O.T.C at Michigan State University
U.S. Army Instructors Training Course	U.S. Army Scout Platoon Leaders Course

SOFTWARE PROJECT DOCUMENTATION authored:

Offshore Entry/Exit Criteria	Software Standards Documents	Concept Documents
Requirements Documents	Implementation Plan	Project Charter
Design Document	Warranty and Support Plan	