DREW HAMRE

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Software Development / IT Infrastructure

I design, write, and optimize software for Microsoft and other platforms. I've worked as a software developer, database administrator, and as a technical leader and communicator. I've developed for Windows (SQL Server and .NET for desktop/web) and for legacy systems (DEC, Solaris, MVS). My tenure with HP included large-scale infrastructure projects for data center relocation and consolidation.

Business and Technical Skills

Projects:	Office automation, COTS integration, database load generation, process chargeback, database ETL, performance optimization, dimensional data marts, scripted security assessments, distributed job scheduling, natural language processing, data center relocation, database consolidation, and automated desktop deployments
Platforms/Tools:	Windows: Visual Studio 2010 (VB.NET, C#), SQL Server 2012 (T-SQL, DDL/DCL, SSIS), ASP/ASP.NET, Office/VSTO; TFS/VSS; MVS (PL/I); Solaris (KSH); DEC (FORTRAN)

Professional Highlights

lexana\net	**Technical Consultant**	**2013**
Software development with a focus on *SQL Server 2012's* semantic search		

Hewlett-Packard (and acquisitions *Compaq* and *Rainier Technology*)	**Technical Consultant**	**1996 – 2012**

Awards:
Two-time winner of **HP's TSG MVP Award** (2004 and 2006).

Publications:
Numerous technical papers, including four published in the **HP Services Quarterly Technical Journal**.

Engagement Chronology:

American Airlines/Sabre	Developer; ASP.NET and data warehouse ETL	2011-12
Supported custom ETL sub-systems for Sabre's legacy billing data warehouse -- a Solaris/Informix-based system which underpins airline cost accounting and chargeback. Supported the warehouse's web interfaces (mix of CGI/ASP/ASP.NET) which allows customer/ product maintenance and invoice analysis. Designed and implemented the web migration strategy, moving the legacy web applications to a Win2008/ IIS 7.5 platform. Designed and implemented a single-sign-on interface, while integrating under internal/external portals. Automated message search and archiving for shared support mailboxes.		

Platforms/Tools: Solaris (KSH) and Informix; MVS/ISPF with ESP scheduling; Windows 2008 with ASP.NET, SQL Server 2008, MicroStrategy, Visual Studio 2010 (C# and VB.NET), PCOMM, and PuTTY.

Safeguard Services (SGS)	Architect and developer; ASP and SQL Server	2011
Designed and wrote a web application and supporting database that allowed SGS statisticians to self-publish, share, and analyze results from new SAS statistical models. The models analyzed provider compliance with Medicare/Medicaid regulations, and flagged instances of possible fraud. Development of the models was ongoing, and the web application's flexible dictionary-driven design allowed statisticians to accommodate new or changed results and to share access appropriately.		

Platforms/Tools: Windows 2003 with ASP; SQL Server 2005 with SSIS; Access 2007

Allegheny Energy	Architect and developer; Business process re-engineering	2010

Architect and technical lead for the re-engineering of a legacy fuel-purchase planning system that helped monitor, forecast, and report on power stations, commodity contracts, pricing, delivery expectations, and fuel inventories. The updated system preserved legacy data and knowledge investments, but migrated into .NET (Excel 2007/VSTO), while adding centralized data storage in SQL Server, automated extracts from legacy Oracle systems, and improved auditing.

Platform/Tools: Windows 2003; SQL Server 2005 with SSIS; Office 2007 (VSTO automation); interfaces to Oracle and to proprietary line-of-business systems; Visual Studio 2008.

HP/EDS Internal (DoD)	Analyst and developer; Scripted security assessment	2010

Designed and wrote custom script extensions for McAfee *Policy Auditor* to meet Department of Defense DISA/STIG requirements in assessing Windows web-related security vulnerabilities.

Platform/Tools: VBScript, WMI, ADSI

Unilever	MSSQL tech lead; Data center relocation	2009

Technical lead for SQL Server during the relocation and transformation of data centers for this multi-national CPG manufacturer. Responsibilities included scripted database migration, DMZ build-out (MSSQL), server virtualization/relocation, application migration, process documentation, and server readiness assessment.

Platform/Tools: Windows 2003; SQL Server 2005; RepliWeb; scripting engines (various)

New York City	Architect and developer; ETL for reverse-911 alerts	2008

Designed and developed ETL sub-systems for interfacing NYC's reverse 911 systems to notification and IVR partners. Developed data-access layer for reverse 911 web site; responsible for database versioning and test data population.   In a related project, wrote the Interface Control Documents for e911 logging and recording, including VESTA consoles, Verizon's ring-down lines, and backup Centrex devices.

Platform/Tools: SQL Server 2005 (chiefly SSIS); Visio data modeling

State of Washington	Technical specialist; SQL Server optimization	2008

Optimized and debugged a custom data dictionary/pre-compiler system that translated from COBOL/ PROTOS into ACUCOBOL/embedded SQL for a HP-UX/CODASYL to Windows/SQL Server migration.

Platform/Tools: SQL Server 2005 (chiefly Profiler); ACUCOBOL.

US Postal Inspection Service	Tech lead; Data center relocation	2007

Technical lead for the relocation of the USPIS data center from Virginia to Minnesota. Thirty-systems and ten-terabytes of information were moved, while being virtualized and consolidated. Cutover occurred over a single weekend. Coordinated teams from USPIS and their parent agency, as well as with stakeholders including storage administrators, security, networks, operations, and hardware support.

Platform/Tools: VMWare ESX

British Petroleum	Architect and developer; Database consolidation	2006-7

Lead architect during both sales and implementation phases for a major British Petroleum database consolidation project. The design offered high availability, increased server utilization, and provided flexibility in re-stacking consolidated applications. The design specified a pure x64-architecture built around PolyServe's cluster file system and supported both Windows/SQL Server and Linux/Oracle. In addition to consolidation architecture, designed and developed a charge-back framework and database load generator.

Platform/Tools: PolyServe (storage clustering/virtualization); SQL Server; Oracle; Visual Studio 2005.

US Postal Inspection Service	Developer; Intranet site	2005

Helped develop an ASP.NET web application that supported postal address monitoring, custom alerts, and collaborative workflows, while integrating with other internal systems. Responsibilities included the workflow and print queues, email subsystem, and *ad hoc* search functionality.

Platform/Tools: Windows 2003 with ASP.NET; Visual Studio 2005; SQL Server 2005

United Health Group	Developer; Automated desktop deployments	2004

Helped develop an ASP.NET site to manage and automate OS upgrades for 20,000+ desktops
Responsibilities included the migration scheduler, email subsystem; the inventory-scan, the deployment day
dialogs; the ActiveX self-discovery component; the software matching and hardware update modules;
deployment date scheduling; and self-deployment load balancing.

Platform/Tools: ASP.NET, Classic ASP, .NET Services, ActiveX/VB6, and Altiris (inventory component)

HP Internal	Architect; Service offering	2004

Created HP service offering: "Express Evaluation for MS SQL 64-bit on Integrity Itanium Servers"

Fidelity Financial Services	Architect; .NET best practices	2003

Developed a series of prescriptive .NET architectures and best practice documents to guide Fidelity's .NET
development efforts and deployments. Scope included a) the .NET Global Assembly Cache (utilities for
viewing/managing, strong names, version conflicts), b) Framework versioning (side-by-side execution,
expected bindings, .config changes), c) Code Access Security (evidence/permissions/policies, administrative
tools, 'partial trust', .NET's security stack walk), and d) high-fidelity, thin-client deployment alternatives
(benefits and challenges of URL-launched, code-launched, and self-updating applications).

Platform/Tools: Microsoft .NET Framework 1.0 and 1.1

Capella University	Technical lead; COTS application integration	2002

Technical lead on a project to integrate proprietary COTS applications in real time. (For example, SSN
changes made via the Financial Aid system needed to be mirrored in the CRM, course management, and
document management systems.) Challenges included detecting data changes in closed systems, resolving
keys (joining entities) across systems, and avoiding circular updates.

Platform/Tools: Visual Studio 2001 (VB.NET); SQL Server 2000 (DTS)

Ryerson Tull (Inland Steel)	Architect and developer; Exchange-based KM portal	2001

Designed and developed a custom Knowledge Management and document control portal for Ryerson, which
was seeking QS-9000 certification. The custom solution used Exchange 2000 as the data store, and a
modified version of Outlook Web Access as the front-end. The custom system could a) store any file system
object and make it accessible across an intranet; b) expose items in a navigable folder hierarchy with user-
selectable folder views; c) allowed appending custom properties to each item; d) provided rapid indexed
searches (both freetext and property-based); and e) integrated with Word via custom toolbars.

Platform/Tools: Exchange 2000; ASP (modified Outlook Web Access); VBScript and JScript

Northern States Power	Architect/tech lead; Web-based energy audit	2000

Was architect/lead developer for web-based energy audit to encourage residential energy savings.
Managed interaction with vender teams (HVAC engineering and graphic design), and developed the sub-
systems for billing history and heating/cooling simulations (DoE libraries). To deliver scalable simulations,
wrote a distributed batch processing system with dynamic load balancing/aging and remote job monitoring.

Platform/Tools: ASP; VB6; SQL Server 2000

UltraPower Technologies	Architect/lead; Exchange-based CRM & web development	1999

Designed and developed a line-of-business application for a startup within NSP that a sales/contact
management tool, in addition to managing test data generated by field engineers. The system leveraged
Exchange's object store to dramatically reduce cost of ownership. The system used a thin-client deployment
model and was fully usable while disconnected, including integrated sales and data reporting.

Selected writings and presentations	(* Published in the *HP Services Quarterly Technical Journal*)

- *'SpiderGrab': A Rudimentary .NET Web Crawler/Download Utility**
- *Dirty Details: Record Linking, Cleaning, and Data Integration **
- *The Avatar's Ghost: Digital Immortality **
- *Enron's Inbox **
- *Retail Point-of-Sale Data Marts with SQL Server*

A.C. Nielsen Marketing Research …	1984-1996

Prior to HP, I worked for marketing researcher **A.C. Nielsen**, with professional highlights including:

A. C. Nielsen
Manager,
Special Applications
and
Technical Consultant
(1991 to 1996)
[NT, Windows, VB]

- Technical Manager and developer of *FastRead*, Nielsen's overnight data service. This service pioneered the strategic use of daily grocery scanner data in tracking sales and in measuring the effect of promotions on in-store traffic and market basket size. The system included several significant advancements: sales expectations by day-of-the-week, integrated promotion information, and store operational data including breakouts by hour and by lane. In 1994, *FastRead* was nominated for *Promo* magazine's Pinnacle Award.
- Developed an NT Server-based batch scheduling system for remotely processing Windows applications across distributed systems.
- Led team responsible for developing the production interface between DB2 and Nielsen's proprietary Windows OLAP package. Designed and wrote various EIS client front-ends; data warehouse loaders for shipment and financial data; developed systems to integrate financial, media, and promotion data with syndicated retail information.

Manager,
Prototype Development
(1988 to 1991)
[MVS/TSO PL/I]

- Developed Category Management and sales force applications. Co-authored one of the first promotion evaluation systems, and was on the team which developed Nielsen's initial scanning data reporting system.

Senior System Programmer
(1984 to 1988)
[TOPS-10 Assembler]

Developed operating system enhancements and several widely used system utilities (TOPS-10) and later served as system manager for a VAX/VMS system, and helped manage the firm's transition to an MVS/ISPF environment.

Early work history …

Prior to A.C.Nielsen, I lived in Dallas, Texas, and worked for two smaller companies:

Compucon - Dallas, TX
Sr. Programmer/ Analyst
[VAX FORTRAN]

Compucon was a wholly-owned Nielsen subsidiary. While there, I developed custom systems for Nielsen Media, including the first syndicated system to track VCR usage, the results of which were covered on the front page of *USA Today*.

CBC - Dallas, TX
Laboratory Director
[SPSS/SAS]

The Consumer Behavior Center was a small (4-person) firm specializing in music research, commercial pre-testing, media consulting, and product positioning for *Fortune* "100" clients. CBC pioneered biometric testing in advertising research. My responsibilities included research analysis and design, statistical software, and client presentations.

Degrees and certifications …

- I've done graduate work in psycholinguistics at the University of Texas at Dallas.
  I received my BA from the University of Minnesota in Minneapolis with a focus on experimental psychology.
- Certifications include Microsoft's *MCSD for.NET* ('Early Achiever', 2003), *MCSD* (1997), and *MCSE* (1998).