



KEVIN SCHARNHORST

PASSIONATE ABOUT HEALTHCARE IT

VP Healthcare Information Technology & Medical Informatics
CTO / IT Director / Enterprise Architect / Software Engineer

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Visionary Health Information Technology (HIT) and Bioinformatics Executive on a transformative mission to improve healthcare delivery and quality of care across the U.S. through state-of-the-art data analytics for all sizes of health care organizations (HCOs).

17 years of Leadership, plus MMI, BBA/CIS, and Poli Sci degrees

*Hospital Data Warehouses
Analytics & BI Platforms
EHRs & EMRs
Automated Enrollment
Group/Member Management
Public & Private Exchanges
Clinical Care Management
Hospital Pre-authorization
Medical Claims Processing
Payment Processing*

- ❖ Recent triumphs in architecting and deploying data warehouses and data analytics for community and academic healthcare systems to aid in improving outcomes centered around the triple aim of healthcare.
- ❖ Transparent, inclusive management style to drive organizational change and build a productive, collaborative work culture while fostering real commitment amongst stakeholders at all levels of the enterprise.
- ❖ High comfort level driving long-term, cross-functional initiatives for mid-to-large F500 firms and HCOs, requiring business partnerships with top-tier developers, architects, analysts, informaticists, MBAs, end users, clinical staff, MDs, and PhDs.
- ❖ Expert in implementing and migrating to SOA design and the Agile software development methods with strong track record of achieving 100% compliance with HIPAA, SOX and PCI regulatory standards.
- ❖ Hands-on engineering leadership in designing business rules engines, knowledge management systems, code repositories, and code automation tools.

PROFESSIONAL EXPERIENCE

Health Catalyst Meridian, ID | 2014-Present

Senior Technical Director / Technical Director / Senior Data Architect

Led game-changing data warehouse implementations, requiring leadership over technology development, analytics/informatics, and business process workflow (re)design initiatives to revolutionize patient care while reducing costs for Health Catalyst's largest and highest valued community and academic hospital clients.

Healthcare IT Solutions

Data Warehouse Platform

Flexible business intelligence solution aggregating patient data with hospital data to enable the generation of predictive and retrospective analytics.

Partial Client List:

- Community Hospital Network
- Indiana University Hospital
- Thibodaux Regional Medical
- Texas Children's University
- University of Texas, Medical

Implementation Process Improvement:

- Cut average time-to-deployment from 8 months to 2 months.

STRATEGIC DIRECTION

- Partnered with client-side CFOs, CIOs, CQOs, CMOs, and CNOs to guide and prioritize investment as well as build effective IT project governance models.
- Created deployment strategies based on requirements gathered from clinicians, informaticists, hospital administrators and executive leadership. Identified problem areas within workflows, drafted process maps, and explored alternate strategies.
- Co-developed utilization forecasts up to 3 years out to calculate hardware capacity needs with an eye for scaling quickly.

ENGINEERING LEADERSHIP

- Orchestrate end-to-end planning, design, and development of multimillion-dollar enterprise data warehouses plus 6-10 application modules (per project), taking a total of 10-12 months from SOW agreement to deployment.
- Direct application integration and development of advanced improvement processes/workflows, requiring knowledge of 30+ add-on applications as well as day-to-day business understanding of medical disciplines.
- Personally design and develop SQL database with analytics/visualization overlays.

TEAM MANAGEMENT

- Directly manage 4-6 Technical Directors above a tier of 11 Data Architects, offering guidance on service delivery, client engagement, and troubleshooting cloud-hosted and on-premises network, storage, and system challenges.
- Coordinate and review the work of cross-functional technical teams consisting of Hardware Engineers, BI Developers, System Administrators, Network Administrators, and Business Analysts.

SQL Server, Oracle, Microsoft APS (Analytics Platform System), Catalyst Analytic Platform, SSIS (SQL Server Integration Services), Qlikview, Tableau, SSRS (SQL Server Reporting Services)



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Blue Cross of Idaho Meridian, ID | 2009-2014

Software Engineering Manager / Senior Software Engineer / Senior Programmer Analyst

Rapidly promoted within a 150-person IS Department to take charge of the Service Development Team composed of the most senior software engineers in the company. Architected and designed numerous HIT systems and guided 5 other development groups on Data Integration, ERP, and service-oriented development initiatives.

Healthcare IT Solutions

Electronic Enrollment

Automated membership enrollment system with business rules engine and secure Federal exchange between BCI and the Centers for Medicare and Medicaid Services (CMS).

- Achieved 80% automation rate.
- Cut 12 FTEs & 12 seasonal staff.

Federally Facilitated Marketplace Eligibility & Enrollment (FFM)

Architecture solution for mission-critical HCR initiative accounting for over 50% of total 2013 IS budget.

- Delivered on very tight deadline.

Clinical Care Management

ZeOmega's \$1.5M Care Management System, with pre-authorization functionality feeding claims system.

- Directed 10,000 hours of work.

Clinical Care Review Management

Integrates TriZetto's Facets Medical Claim Processing with McKesson's CareEnhance Review Manager.

- Saved \$150,000 in vendor fees.

STRATEGIC DIRECTION

- Advised CIO, CEO, CSO, CMO, and COO from a technology strategy standpoint on 7-figure software purchases, RFPs, PoCs, and care management.
- Delivered community outreach seminars as part of Ambassador Program designed to educate the general public on the Affordable Care Act (ACA) to empower individuals to make informed decisions related to their care.
- Respected as a trusted organizational leader, subject matter expert, and mentor on varied technologies across the enterprise.

ENGINEERING LEADERSHIP

- Introduced n-tier SOA-based design, creating 12 services across 6 service families to cut development costs \$500,000 across a 2-year period by eliminating redundancies across departments/projects.
- Instituted Agile-based Continuous Integration/Continuous Development (CI/CD) model for benchmark testing of new and existing software applications.
- Championed the creation of a Software Engineering job family.

TEAM DEVELOPMENT

- Coached technical staff across Systems & Programming, Information Management, Operations, Facets Integration and Network Services on understanding business requirements and technical roadmaps.
- Provided ad hoc training on Biomedical Informatics, Software Development, Database Development, UML Modeling, and .NET architecture to 60 staff.
- Established reliable knowledge transfer methodologies via video recordings to eliminate peer-to-peer trainings.

WebMethods, .NET, WCF, WF, C#, UML, SQL Server, Sybase, ASP.NET, SharePoint, SSRS, Edifecs, ANSI EDI X12, Python, TriZetto CareAdvance & Facets, McKesson CERMe, Informatica

Micron Technology (Crucial Technology) Boise, ID | 2000-2009

Software Engineer I-IV / Programmer

Received 5 promotions across 10-year tenure with a subsidiary of this Fortune 500 semiconductor manufacturer, culminating in a lead role over 10 developers, analysts, and QA staff. Built payment processing system and worked on client-server and public/internal web applications. Survived 80% layoff (1,200 RIF) in 2007, picking up triple the workload.

ENGINEERING LEADERSHIP

- Served as Oracle/SQL Team Reviewer on the Database Standards Committee, and researched, tested, and recommended emerging technologies.
- Conducted benchmark testing to maximize response times over network and between database layers.

STRATEGIC PROJECTS

- Contributed to on-time, on-budget SAP migration estimated to save the company \$1.5M. Played a key role in porting over outdated code to the new environment.
- Co-developed VB application facilitating order fulfillment process for 300 staff.

Visual Basic 6, C#, Web Services, .NET, SAP, Siebel, Oracle 9i, Paymetric XiPay, PayPal APIs

Enterprise IT Solutions

Payment Processing

Real-time alternative credit-card processing/fulfillment platforms.

- Integrated with PayPal, SAP, and Bill Me Later.

Price Modification

Automation tool that standardized website price-modification process.

- Saved \$30,000 per year.



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EDUCATION & CREDENTIALS

CPHIMS | The Open Group Architecture Framework (TOGAF 9.1) | MCPDEAD | Kepner-Tregoe Resolve |
Microsoft Certified Professional (MCP) | A+ Certified Computer Technician

Master of Science in Medical Informatics (MMI): NORTHWESTERN UNIVERSITY (Evanston, IL) 2012
Bachelor of Business Administration, Computer Information Systems: BOISE STATE UNIVERSITY (Boise, ID) 2001
Associate of Applied Science: Political Science BRIGHAM YOUNG UNIVERSITY (Rexburg, ID) 1996

ADDITIONAL HEALTHCARE & IT EXPERIENCE

KS Consulting www.ksconsulting.com (2002-Present)

— Complete periodic side projects in networking, web development, ecommerce, and open-source development to keep hands-on engineering skills polished and stay engaged with global ecosystem of top-tier development teams.

OpenCDS.org <http://www.opencds.org/FeaturedCollaborators.aspx> (2012-Present)

— Became a "Featured Collaborator" with OpenCDS founder and renowned Informatics Professor, Dr. Kensaku Kawamoto.

TECHNICAL SKILLS SETS

Programming: C#, VB.NET, Java, Windows Communication Foundation (WCF), Windows Workflow Foundation (WF), Windows Presentation Foundation (WPF), webMethods Flow, DROOLS, ASP.NET, Visual Basic 6, SQL Server Integration Services (SSIS), Web Services, ASP, SAP ABAP, CSS, PL/SQL, T-SQL, C++, Cold Fusion, Cobol, VBScript, VBA for Office, Crystal Reports, DotNetNuke Web Portals.

SAP ABAP: Workbench, User-Exits, BAPIs, DCOM, SAP Web Services, SAP Script, RFCs, ALE Programs, Dialogue Programming, Reports. SD, FI, LE, and MM.

DBMS / Data Warehousing: SQL Server 2012/2008/2005/2000, Oracle 9i/10g (SQL Navigator, SQL Developer), Sybase, Access, Health Catalyst Analytics Platform, SQL Server Analysis Services, Informatica.

Healthcare Systems: EPIC, Cerner, Meditech, CPSI, Centricity, Press Ganey, NRC Picker, Blue Cross Anthem, Humana, Midas, CMS Claims Data, Facets, Care Advance, ZeOmega Jiva, McKesson InterQual CERMe.

Development Tools: Visual Studio 2003-2016, Eclipse, webMethods 8.x, CentraSite, Informatica, SQL Server Integration Services (SSIS), Sparx Enterprise Architect, Visual Basic 6, SQL Server Management Studio (SSMS), BIDS, SQL Server Reporting Services (SSRS), SQL Navigator 5, RapidSQL, ServiceNow, FootPrints, ClearQuest, Team Foundation Server, Subversion, PVCS, Visual Source Safe, SQL Navigator, SQL Developer, Discover, Cognos, ProClarity, Microsoft Analysis Server, Dreamweaver, Homesite, Visio, Microsoft Project, Rational Rose.

Applications: SharePoint, PowerPoint, Excel, Word, Project, Visio, Photoshop, Flash, Project, Cognos, ProClarity, FTP, Visual Studio.NET.

Operating Systems: All Desktop versions of Windows, Windows Servers, MAC OSx, DOS, limited experience with Linux.

AFFILIATIONS & LEADERSHIP

Idaho Health Data Exchange – Board of Directors2014-Present
Healthcare Information and Management Systems Society (Idaho Chapter) – Board of Directors & Member2012-Present
Northwestern University Department of Medical Informatics – Adjunct Instructor2012-Present
OpenCDS.org – Key Collaborator (open-source, standards-based clinical decision support tools)2012-Present
American Medical Informatics Association, 2013 Annual Symposium – Member & Attendee2013-2015
Treasure Valley Community College (TVCC) – Adjunct Computer Science & Programming Instructor2012-2014
BoiseFragFest.com (Youth Involvement in Technology & Computer Gaming) – Owner2001-2006
Boy Scouts of America – Leadership Volunteer (Eagle Scout)2014 – Present