

Aaron N. Cutshall

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Senior Data Architect

Health Informatics – Systems Analysis/Design – Data Architecture – Project Development

Clinical Quality Measures

Project Management

Team Leadership

Microsoft SQL Server

Database Optimization

Analytical professional with 30+ years' experience in systems design, databases and architecture, with expertise in healthcare informatics and primary focus on clinical quality measures.

Expertise with entire software development lifecycle, from analysis, planning and design through testing, implementation, and training. Experienced team leader with strong communication skills and ability to collaborate with multiple stakeholders.

PROFESSIONAL EXPERIENCE

THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS — Salt Lake City, UT

01/2019 – Current

BI Engineer 5

Engaging in a BI data warehouse project for the missionary department (as a contingent employee through Apex Systems) utilizing Tableau, SAP Data Services, SAP Business Objects and Oracle to create unique reports and dashboards.

KNOWLEDGENT GROUP, INC. — Warren, NJ (Remote)

04/2018 – 12/2018

Senior Healthcare Solutions Architect

Architect for an operational data store for a healthcare insurance company client utilizing Amazon Cloud Services (AWS). Mapped data from multiple disparate sources to be homogenized into a single repository for reporting and analytics.

GLOBAL EMERGENCY RESPONSE, INC. — Augusta, GA

10/2017 – 3/2018

Senior Data Architect

Primary data architect for flagship application, HC Standard™ that supports information sharing between healthcare workers, providers, and first responders, primarily in crisis situations and mass casualty events. Improved and streamlined system to ensure flexibility for continued growth.

- Optimized database architecture and data processing procedures to improve information sharing and response time.
- Reduced database query time and report generation an average of 98%.

ENCORE, A QUINTILES COMPANY — Houston, TX (Remote)

1/2017 – 8/2017

Senior Data Architect

Designed data model, processes, and procedures to perform Critical Quality Measures against data from disease, surgery, and other healthcare registries. Collaborated and provided strategic advice in converting registry specific survey responses to usable clinical data for other measures.

- Reduced volume of data used in processing by 66% and reduced overall processing time by 75%.
- Created enhancements and features for CoreANALYTICS™ tool to better track health analytics.

ANTHEM, INC. — Indianapolis, IN

1/2016 – 1/2017

Senior BI Solutions Architect

Designed high-level concept technical solutions to replace aging data systems. Developed and implemented common data solutions for multiple departments and functions. Oversaw identification, prevention, and recovery from incorrect or fraudulent billing practices. Managed multi-million dollar projects to integrate systems across multiple business divisions within common data solution and managed costs effectively to ensure utility and efficiency.

- Improved average stored procedure execution time 75%.
- Designed process that reduced documentation management time by an average of 30 minutes per document.

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ENCORE, A QUINTILES COMPANY—Houston, TX (Remote)

6/2012 – 1/2016

Senior Data Architect

Designed and led development of industry's first dynamic measure calculation engine within CoreANALYTICS™. Designed engine concept, database schema, XML measure specification, measure compiler, and the measure editor. The measure specification allowed non-programmers to create measure definitions and execute them. Collaborated with development team in utilizing algorithms and stored procedures and verified results. Oversaw database implementations including SQL Server 2008/2012 and IBM Netezza 7.0.

- Reduced measure development time by 85%.
- Measure calculation engine replaced a manual process which required 6-months to perform for daily calculations.
- Reported measure results which allowed hospitals to meet CMS requirements and receive incentive payments.

LANTANA CONSULTING GROUP—Los Angeles, CA (Remote)

2/2012 – 6/2012

Senior Data Architect

Served as technical lead on the eQuality project for the Centers of Medicare and Medicaid Services.

INDIANA HEALTH INFORMATION EXCHANGE—Indianapolis, IN

3/2006 – 2/2012

Senior Data Architect

Lead Architect and Development Manager for Quality Health First® program. Project involved collection, management and aggregation of large amounts of clinical and claims data from multiple sources. Measures based upon HEDIS and AMA for preventative screenings were used to reduce health care costs and to improve overall patient health care. Designed the architecture and developed complex logic. Defined standards for development and documentation.

- Oversaw development that allowed participating providers to receive incentive payments.
 - System calculated 40 measures for 250,000 patients in 45 minutes which was a significant improvement over the alternative system that calculated 40 measures for 75,000 patients in 8 hours.
- *Previous experience consists of 20 years in manufacturing, warehousing and distribution services in various companies.*
- *Teaching experience includes courses in business and computers as a part-time adjunct instructor at three different colleges spanning a combined period of nearly 5 years.*
- *Military experience includes service as a Petty Officer, 3rd Class (Data Systems) in the U.S. Naval Reserve and a Specialist (Computer Support) in the Indiana Army National Guard.*

TECHNICAL PROFICIENCIES

Microsoft Office Professional | Microsoft Visual Studio | XML/XSD | ER/Studio
AWS | Microsoft SQL Server (T-SQL) | Oracle 10g (PL/SQL) | IBM Netezza 7.0 (NZ/SQL) | Postgres 9.6

EDUCATION AND CERTIFICATIONS

Master of Science in Health Informatics – Indiana University Purdue University of Indianapolis, 2013
Master of Science in Computer Information Systems – University of Phoenix, 2004
Bachelor of Science in Computer Science – Ball State University, 1986

PROFESSIONAL ORGANIZATIONS

PASS – Professional Association for SQL Server | Recurring Speaker, SQL Saturday