

Data and Business Intelligence Architect

Job Summary

The Data and Business Intelligence Architect is a two-fold position with the responsibility of being both the Data Architect and Business Intelligence Architect.

The Data Architect is responsible for expanding the Company's use of data as a strategic enabler of corporate goals and objectives. The architect/engineer acts as the primary advocate of data governance and data management best practices to ensure all data is defined and used consistently across all systems. This individual also acts as the primary advocate of data modeling methodologies best practices, by strategically reviewing and creating data models for enterprise-level applications and systems. From an engineering perspective, this position implements methods to improve data reliability and quality, combines raw information from different sources to create consistent and machine-readable formats and develops and tests architectures that enable data extraction and transformation.

As a Business Intelligence (BI) Architect, this position will bring crucial analytics and ad hoc reporting solutions to all lines of business. Accurate business intelligence often equals competitive advantage in the market, and this position will be the data warehouse and dimensional data mart expert. Expertise in relational and multidimensional database schemas is a must. The efforts of this position will be focused on three broad areas: (1) working with representatives from our corporate IT group, (2) creating and maintaining a data warehouse / data mart platform that exposes disparate data repositories to the BI platform and (3) participating in the development and support of BI reporting objects (via high quality dashboards and data visualizations).

The Data and Business Intelligence Architect provides advanced technical support to the research, experimentation, business analysis and use of systems technology including architecture, integration capabilities, data visualization and database management.

Responsibilities

- Provides technical and data leadership to the data and business intelligence group, IT and the enterprise including being conversant with and cognizant of the future direction of systems, how that direction will impact the reusable data platform, and how data from future and current systems can be exploited for the benefit of the enterprise
- Develops the architecture and provides the engineering skills in creating a reusable data platform consisting of a robust data warehousing environment supported by dimensional data marts (cubes), accessed via end-user oriented BI tools
- Participates in the development of data centric strategies, solutions, and systems design

Responsibilities, cont.

- Identifies, researches, and resolves complex technical problems to enable business capabilities in the areas of development of a data warehouse, creating of data marts, implementation of BI tools and propagation of a data culture
- Defines vision, strategy, and principles for data management
- Defines standards for naming, describing, governing, managing, modeling, cleansing, enriching, transforming, moving, storing, searching and delivering all data within the enterprise
- Serves as a liaison between data consumer representatives and data solution development, integration and governance teams
- Must understand how data is, or will be used, and implication on people, processes, products and technology
- Leverage technical expertise of peers and external resources as needed to ensure high-quality, effective solutions are delivered
- Determine the feasibility of data-related solutions, make recommendations, perform analysis, program and test activities as required
- Ensure development team is conforming to data access/manipulation/propagation documented standards and add to these standards as the need arises
- Authors technical and functional specifications associated with data architecture and associated data platform solutions
- Works with the Database Administration team to design tables, queries, and packages to obtain information from and send information to remote databases
- Ensures timely creation and generation of managerial reports/data extracts, in collaboration with IT and business departments
- Responsible for leading the strategic design and tactical maintenance of business intelligence applications
- Ensures that the use of business intelligence systems enhances business decision making capabilities
- Works closely with other IT groups to coordinate current and future plans , including coordination and technical assistance to facilitate specific data platform projects that involve the computing environment, the coordination of software upgrades and the installation of new products
- Recognizes and identifies potential areas where existing policies and procedures require change, or where new ones need to be developed, especially regarding future business expansion

Job Qualifications

- Bachelor's degree in information technology, data analytics, business, or a related field required
- Seven years experience as a data/BI architect and engineer including BI/DW technologies
- One or more of the following certifications preferred (or equivalent certifications, should any of the following be superseded by updated designations):
 - Certified Business Intelligence Professional
 - Microsoft Certified Solutions Associate in BI Development
 - Microsoft Certified Solutions Associate Bi Reporting
 - Microsoft Certified Solutions Expert in Data Management and Analytics
- Minimum 10 years IT experience required
- Experience in complete life cycle of design, development and implementation of data warehousing projects including specifically designing an enterprise data model; developing extract, transform & load (ETL) solutions; creating data marts (cubes), star schemas and data architectures; designing logical and physical databases; and business intelligence reporting
- Proven track record of successful BI solution design and implementation.
- Proven track record of successful data architecture solution delivery and involvement
- Working knowledge of fundamentals across data modeling and data architecture
- Strong understanding of dimensional and star schema data modeling
- Strong understanding of relational database concepts including SQL.
- Thorough knowledge of data warehouse design and ETL Development methodologies and best practices
- In-depth knowledge of business process best practices and methodology, and the organizational objectives and goals they are intended to support
- Ability to work in a fast-paced, dynamic, team-oriented environment
- Ability to work independently
- Strong attention to detail
- Strong troubleshooting and problem-solving skills
- Strong verbal and written communication skills
- Experience delivering formal designs to teams of developers
- Experience reviewing requirements with the business users and business analysts
- Experience in presenting and demonstrating solutions to clients
- Experience in utilizing full life-cycle development methodologies
- Strong familiarity with metadata management and associated processes



Job Qualifications, cont.

- Hands-on knowledge of enterprise repository tools, data modeling tools, data mapping tools, and data profiling tools
- Ability to manage data and metadata migration
- Ability to communicate ideas in both technical and user-friendly language
- Highly self-motivated and directed, with strong attention to detail
- Able to prioritize and execute tasks in a fast paced environment

*College or university must be sufficiently accredited and listed in the U.S. Department of Education Accreditation Directory.

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