JOB TITLE: Database & Data Warehousing Architect
The R&D Data team at Nuance Communications, Inc. is seeking a highly skilled and motivated Database and Data Warehousing Architect, to be responsible for the assessment, design, and development of the current and next generation database and associated data warehouse architecture. The Architect will collaborate with infrastructure architects, application development teams, business analysts, and IT operations staff to understand the evolving business and technology requirements, and will be responsible for recommending and implementing short and long term solutions.

You will be responsible for leading the re-architecture of existing environments in support of large scale product redevelopment. You must be able to provide company-wide database guidance and function as a database technology advocate and mentor.

We offer a stimulating R&D environment with substantial data and computing resources, and room to learn and grow. You will join a small, talented, worldwide data team, working primarily in either our Burlington Massachusetts or Montreal, Quebec office.

RESPONSIBILITIES:
- Key architect and technical lead for database and related automation and infrastructure for research data from rapidly growing popular speech recognition applications. Accountable for requirement analysis, design strategy and technical development.
- Design and implement database solutions to architectural goals such as massive growth in transaction volume, additional site replication, reporting facilitation, scalability and archival strategies.
- Function as a decision-making authority on database design to ensure that application solutions meet current and future needs.
- Overseer the design of critical areas of the data model, and to prototype solutions to different architectural problems.
- Provide support and mentoring to developers in all aspects of logical database design, creating and tuning queries, etc., and extensive technical expertise in database design in support of ETL, reporting, and analytics.
- Provide leadership in responding to database issues, outages and recoveries in critical client-impacting situations. Serve as team escalation point for difficult technical issues, providing aggressive ownership of database and warehousing systems.
- Demonstrate conceptual leadership and drive technical development in new areas (such as automation frameworks that exploit new technology).
- Work with development teams for performance tuning and optimization, query optimization, index tuning, caching and buffer tuning, database health monitoring and diagnostics.

TECHNICAL QUALIFICATIONS:
- Minimum of BS in Computer Science or Engineering
- Proven track record of 3+ years as a data architect. 10+ years of continuous database experience in engineering and/or solution architecture, development, and implementation of data solutions for large-scale systems.
- Expert in database architecture and scalability for complex, highly available environments; practical experience implementing 100% availability database architecture.
- State of the art knowledge of data warehouse, server, and data center architecture and operations especially with regard to scalability and bandwidth. Working knowledge of high capacity computing and IO hardware.
- Experience designing, modeling, documenting, and guiding the logical and conceptual relationship of data and database changes for complex applications.
- Broad background in all aspects of database design development and management, including backup, recovery replication, and optimization techniques; data modeling and related tools; tuning database parameters and SQL statements
- Proven experience in the implementation of analysis database systems with emphasis on large scale generation of metadata, data transformation and conversion, and star schema designs. Expertise
with data standardization including development of data dictionaries and metadata repositories, differences between database structures (e.g., transaction based vs. data warehouse).

- Experience with ETL architectures and data movement technologies, and Cloud-based storage services

- Experience designing and implementing efficient complex queries as part of automation which uses vast amounts of data. Working knowledge of relational algebra and other optimization methods is preferred.

OTHER QUALIFICATIONS:
- Proven ability to innovate for new markets and to integrate new technologies and approaches; committed to remaining on the “leading edge” of knowledge in the overall cloud space while helping Nuance retain the lead in this competitive market.

- Thinks strategically and balances long and short-term priorities. Must be flexible and willing to shift focus and multitask based on fast-moving changes in requirements

- Strong project planning and estimating skills; able to translate high level goals into requirements and architectural designs

- Strong analytical skills with demonstrated attention to detail; able to follow a systematic approach to data analysis.

- Ability to guide and mentor the work of less experienced personnel

- Strong communication and presentation skills, and an ability to collaborate well with a multi-disciplinary design team. Able to present to high-level executives. Effectively transfers knowledge to others.

- Experience or skills in speech processing and/or text & audio encoding formats, or multilingual or linguistic knowledge a plus

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