

## Database Engineer

The Database Engineer is responsible for designing, developing, and maintaining robust database systems to support the organization's data needs. This role will work closely with software developers, data scientists, and other stakeholders to ensure data availability, quality, and reliability.

### Essential Duties And Responsibilities

- Design, develop, and maintain scalable database systems to support data integration and analytics needs.
- Collaborate with software developers, data scientists, and other stakeholders to understand data requirements and deliver solutions.
- Ensure data quality and reliability by implementing data validation and monitoring processes.
- **Optimize database performance and scalability** through indexing, partitioning, query optimization, and performance tuning.
  - **Indexing:** Create and manage indexes to improve query performance.
  - **Partitioning:** Implement table partitioning to enhance query performance and manage large datasets efficiently.
  - **Query Optimization:** Analyze and optimize SQL queries to reduce execution time and resource consumption.
  - **Performance Monitoring:** Use performance monitoring tools to identify and resolve bottlenecks.
  - **Resource Management:** Allocate and manage database resources effectively to ensure optimal performance.
- Develop and maintain database schemas, stored procedures, and documentation to support data governance and management.
- Implement and manage data security and privacy measures to protect sensitive information.
- Troubleshoot and resolve database-related issues, ensuring timely and accurate data delivery.
- Stay current with industry trends and best practices in database engineering and management.
- Other duties as assigned.

### Required Skills & Qualifications

- **Technical Proficiency** – Expert-level knowledge of SQL, NoSQL, and database management systems (e.g., MySQL, PostgreSQL, MongoDB).
- Experience with cloud-based database platforms (e.g., AWS RDS, Google Cloud SQL, Microsoft Azure SQL Database).
- Strong understanding of database design and data warehousing concepts and technologies (e.g., Redshift, BigQuery, Snowflake).
- Proficiency in database modeling, ETL processes, and data pipeline orchestration tools (e.g., Airflow, Luigi).

- Excellent problem-solving skills and the ability to troubleshoot complex database issues.
- **Strong Communication Skills** – Ability to write clearly, succinctly, and understandably.
- **Active Listening** – Giving full attention to what other people are saying, taking time to understand the points being made, asking questions as appropriate, and not interrupting at inappropriate times.
- **Personal Accountability** – Accepts personal responsibility for the consequences of personal actions; avoids placing unnecessary blame on others.
- **Teamwork** – The ability to work effectively and productively with others. Shares responsibility with team members for successes and failures; keeps team members informed regarding projects; provides constructive feedback to the team and its members; responds positively to feedback from team members; raises and/or confronts issues limiting team effectiveness.
- **Time Management** – Managing one's own time and the time of others. Ability to motivate teams to produce quality materials within tight timeframes and simultaneously manage several projects.
- **Judgment and Decision Making** – Considers the relative costs, benefits, impact, or consequences of potential actions to choose the most appropriate one. Ability to make decisions in a timely manner.
- **Critical Thinking** – Using logic and reasoning to identify the strengths and weaknesses of alternative solutions, conclusions, or approaches to problems.
- **Dependability** – The individual is consistently at work and on time, responds to management direction, and solicits feedback to improve performance.

### Working Conditions / Education / Experience

- **Working Conditions:** Office type environment.
- **Physical Demands:** Regularly required to stand or sit and move about the facility.
- **Education and Formal Training:**
  - Bachelor's Degree in Computer Science, Database Engineering, or related field (equivalent work experience accepted).
- **Experience:**
  - 5+ years' experience as a Database Engineer.
  - Strong understanding of database architecture and system integration.
  - Proficient in agile methodologies and collaboration tools.
  - Experience with version control systems such as Git and repositories such as GitLab or GitHub.
  - Well experienced with using an IDE.
  - Knowledgeable in DevOps practices (deployment, infrastructure, CI/CD).
  - Experience configuring and consuming external APIs and integrating them into database systems.
  - Utilizes coding conventions to ensure uniform code and methodology.