



**Job Title:** Data Engineer, Hockey Operations  
**Reports to:** Vice President of Hockey Strategy & Research  
**Manages People:** N/A  
**FLSA Status:**  
**Revised:**

### **Summary**

We are seeking a data engineer for the Hockey Operations department with the Buffalo Sabres. Subject to the minimum qualifications listed below, we welcome applicants of all levels of experience. This position will report directly to the Vice President of Hockey Strategy & Research. The primary focus of this role will be back-end development, but front-end development skills and data analysis experience are considered a plus for any applicant. This position is available for either in-person or remote work (with occasional travel).

### **Duties & Responsibilities**

The Data Engineer's responsibilities may include any of the following:

- Develop, document, and maintain the schemas and ETL pipelines for all hockey operations databases
- Implement and automate secure data collection, storage, and access procedures for all hockey operations data sources
- Implement and maintain a system for unit-testing and monitoring all hockey operations databases, data products, and associated raw data feeds
- Prepare data for analysis by hockey operations data scientists
- Optimize data collection, storage, manipulation, and transformation tasks
- Collaborate with a team of data scientists, data engineers, and other department personnel
- Create web interfaces for hockey operations use, in conjunction with department personnel
- Communicate effectively and perform all job responsibilities in a variety of work settings, including in virtual meetings and distributed work environments, at in-person meetings, and in other settings
- Perform ad-hoc and time-sensitive tasks upon request
- Attend in-person meetings upon request
- Fulfill other related duties and responsibilities

### **Minimum Qualifications for the Position:**

The Data Engineer should have the following minimum qualifications:

- Bachelor's degree or higher in software engineering, computer engineering, computer science, information technology, information systems, or a related field
- Fluency in SQL development and an understanding of database and data warehousing technologies

- Strong knowledge of ETL architecture and development in a cloud-based environment
- Academic and/or industry experience in database architecture design and/or back-end software design
- Experience collaborating with and providing data products to data scientists for analysis
- Experience maintaining real-time and/or streaming databases, working with Rest APIs, and working with other high-availability database systems
- Experience with at least one programming language for data analysis (e.g. R, Python, Julia) and/or one object-oriented programming language
- Experience automating unit-testing, quality assurance, and/or data quality monitoring
- Experience writing shared code and using version control tools in team work environments
- Strong problem-solving skills
- Enthusiasm to work for a professional sports team
- Ability to work a flexible schedule (including nights, weekends, and holidays when necessary) and to occasionally travel (e.g. for in-person meetings)
- Ability to responsibly maintain sensitive and confidential databases
- Front-end development experience (e.g. with HTML, CSS, JavaScript, etc) is considered a strong plus
- Data analysis experience is considered a plus

Applicants with a portfolio of projects available to be reviewed during the interview process will be given preference.

### **Critical Competencies**

- Detailed
- Organized
- Creative
- Collaborative
- Adaptive
- Responsible
- Confidential
- Proactive
- Competitive
- Proficient in oral and written communication

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