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Dear Hiring Manager,

I am writing to express my interest in the Production Database SRE position within the HRT Trading Systems Infrastructure team. With over five years of experience in database management and infrastructure engineering, along with solid Linux system engineering skills, I am confident in my ability to contribute effectively to your team.

In my current role at Avant LLC, I have successfully architected and managed production data models in Snowflake, significantly improving data processing efficiency and reliability. My expertise in implementing robust data quality checks using SODA and developing custom Python scripts for anomaly detection has led to a 30% reduction in data discrepancies. Additionally, my work involves configuring and scaling PostgreSQL and MySQL servers for critical real-time workflows, which aligns closely with the responsibilities outlined in your job description.

I am particularly excited about the opportunity to work with a small, focused team of like-minded database and systems engineers. At Avant LLC, I have built data pipelines using Apache Airflow and Snowflake, ensuring real-time data availability and enhancing overall system performance. I have also leveraged Azure Databricks and Spark for large-scale data processing, building and optimizing data pipelines, and implementing machine learning models for predictive analytics.

My technical proficiency includes extensive experience with PostgreSQL and MySQL, as well as familiarity with state-of-the-art DB technologies such as Redis, Prometheus, VictoriaMetrics, and Grafana. I have successfully transformed metrics and alerting landscapes, which is critical for maintaining the performance, scalability, and reliability of HRT's trading infrastructure.

Moreover, I have a strong background in using infrastructure-as-code tools such as Terraform and Salt, enabling me to engineer and apply robust infrastructure solutions. My ability to build and test proof-of-concept datastores to fit consumer use cases, combined with my performance troubleshooting and networking knowledge, makes me well-suited for this role.

Exceptional communication and project management skills are crucial for cross-collaboration with various stakeholders, and I pride myself on my ability to effectively engage with teams to deliver high-quality results. My resourcefulness, sense of urgency, and motivation to continually improve processes align perfectly with the profile you are seeking.

I am enthusiastic about the possibility of discussing how my background, skills, and certifications in Snowflake and Databricks can be an asset to your team. Thank you for considering my application. I look forward to the opportunity to further discuss my qualifications and how I can contribute to the continued success of HRT.

Sincerely,

Shouvik Sharma

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