Hello,

This is **Vinoth** from **Nityo InfoTech**; we are looking for **Database Engineer (Performance Engineer)** of our client based **@ Albany, NY Day 1 Onsite.**

I would really appreciate if you can go through the job description and respond as quick as possible with your most updated resume, on hearing from you, we will connect to initiate the next steps or You can forward this opportunity to you or colleagues; so that we can help someone who may be desperately looking for opportunities. I sincerely appreciate your time.

Job title: Database Engineer (Performance Engineer)
Location: Albany, NY Day 1 Onsite.
Hire Type: Contract

The high-level responsibilities of the DB Performance engineer will be as below:

- Identify performance bottlenecks, resource contention, and areas of inefficiency, and provide actionable insights for improvements.
- Recommend and implement changes to query structures (e.g., indexing strategies, query refactoring) to improve performance.
- Regularly rebuild or reorganize indexes to avoid fragmentation and improve data retrieval efficiency.
- Fine-tune database configurations (e.g., buffer sizes, connection pooling, memory allocation) to maximize resource utilization and ensure optimal performance.
- Analyze current and future database growth patterns and plan for scalability to handle increasing data volume and user loads.
- Implement strategies for vertical and horizontal scaling, including partitioning, sharding, and distributed databases.
- Configure and optimize database replication for fault tolerance and performance, ensuring minimal lag between nodes.
- Conduct root cause analysis (RCA) of recurring performance issues, providing solutions to prevent future occurrences.
- Set up proactive alerts for key performance indicators (KPIs) to identify potential issues before they impact users.
- Work closely with developers to optimize database interactions, improve SQL query efficiency, and establish best practices for database access.
- Collaborate with operations teams to ensure that the database infrastructure (cloud, on-premise, etc.) is aligned with performance requirements and can support future growth.

Thanks & Regards,
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