Job description for devops engineer

Company 1: Infosys

**1. Software Solution Development**

* **Design and develop software solutions** to ensure the operability of large-scale distributed systems that can manage millions of transactions and petabytes of data.
* Focus on creating systems that are efficient, scalable, and capable of handling massive amounts of data and high transaction volumes.

**2. SRE (Site Reliability Engineering) Leadership**

* Offer **expert guidance and thought leadership** on Site Reliability Engineering (SRE) practices to architects, infrastructure SMEs, DevOps teams, and application SMEs.
* Align SRE strategies with the **business goals** to ensure reliability, availability, and scalability.
* Drive **best practices** for SRE to enhance system reliability and performance.

**3. Collaboration and Alignment**

* **Collaborate with Platform, Tools, DevOps, and L3 support teams** to ensure continuous architectural improvements and **operational excellence**.
* Work on enhancing the system’s operational workflow to drive **efficiency** and **reliability**.

**4. Observability Platform Design**

* Design and implement **advanced observability platforms** to support effective **monitoring**, **alerting**, and **logging** of systems to ensure they are operating at optimal levels.
* Ensure systems have visibility into performance metrics and health status to support early issue detection and resolution.

**5. Incident Management and Support**

* Provide operational support by **monitoring system availability**, tracking system health, and responding to incidents promptly.
* Develop **incident and problem management strategies** to mitigate recurring system issues and improve uptime.
* **Lead post-incident reviews** (blameless postmortems) to foster a culture of continuous improvement.

**6. Automation and Efficiency**

* **Develop automation solutions** to optimize infrastructure management and streamline workflows.
* Ensure deployment of automated systems for routine tasks such as system health checks, scaling, and incident response to enhance overall operational efficiency.

**7. Capacity Management and Scalability**

* Monitor and manage the system’s **capacity and performance**, ensuring scalability both in **public** and **private clouds**.
* Implement capacity planning strategies to ensure the system can handle future demand growth without issues.

**8. Architectural Optimization**

* Lead **architecture optimization** efforts to improve the system’s **scalability**, **resilience**, and **fault tolerance**.
* Use techniques such as **FMEA** (Failure Mode and Effect Analysis) and **SPOF** (Single Point of Failure) identification to enhance system reliability.

**9. Chaos Engineering and Testing**

* Lead **chaos testing exercises** and **Game Day simulations** to proactively test system robustness and ensure it can handle real-world failure scenarios.
* Implement and manage **chaos engineering platforms** to simulate failures and identify weaknesses in the system.

**10. SLIs, SLOs, and Error Budgets**

* Define and track **Service Level Indicators (SLIs)**, **Service Level Objectives (SLOs)**, and **Error Budgets** to ensure performance and reliability targets are met.
* Use these metrics to drive performance improvements and maintain the system’s operational excellence.

**11. Presales Support**

* Provide **support during the presales process**, contributing to the preparation of **RFPs (Request for Proposals)**, **RFIs (Request for Information)**, and client visits.
* Assist in demonstrating the technical capabilities of the infrastructure and reliability systems to potential clients.

### Summary:

The role demands a strong combination of **technical expertise in software development, cloud infrastructure management, and site reliability engineering (SRE)** practices. The individual must be capable of driving architectural enhancements, improving system observability, optimizing performance and scalability, leading testing and incident management efforts, and providing guidance to teams while aligning with business objectives. Additionally, a focus on automation, incident prevention, and post-incident learning, alongside presales support, is essential for success in this position.