CS 470 Final Reflection

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Assignment Name: CS 470 Final Reflection

YouTube Video Link: https://www.youtube.com/watch?v=QFc4xEAA3SM

1. **Experiences and Strengths:**

    This course has equipped me with practical skills essential for full-stack development, particularly in cloud technologies. I am now competent in building and deploying full-stack web applications and have also learned about the efficiency of serverless architectures for cloud-based applications. I take pride in my ability to troubleshoot problems and resolve issues independently or collaboratively.

    As a developer, I am meticulous and detail-oriented, always striving for clean and functional code. However, I recognize the need to improve my speed and efficiency. With the skills I've gained, I am prepared to pursue roles such as **Full-Stack Developer** or **Cloud Developer**, and this experience will propel my career forward.

2. **Planning for Growth:**

    I have worked with microservices and serverless architectures, both facilitating scalable applications. Microservices allow for the independent scaling of application components, though they require additional tools for orchestration and monitoring the software system. The appeal of serverless architecture lies in its cost-effectiveness for unpredictable workloads, although it may not be ideal for long-running use cases.

    For **scaling** and **error handling**, cloud tools like auto-scaling and monitoring help ensure the system adapts to changing traffic while maintaining **cost** efficiency. Regarding pricing,

serverless solutions offer better predictability, whereas containers are more suitable for steady workloads but can become costly without appropriate resource management.

Elasticity is a significant advantage of serverless models, as they automatically scale with demand. The **pay-per-service** model makes serverless more economical for variable traffic, while containers might be more appropriate for predictable, constant usage.

Conclusion:

This course has prepared me with essential skills in full-stack and cloud development. I am confident I can take on full-stack developer and cloud developer roles. I am eager to improve my speed and efficiency in real-world projects and apply my acquired skills.