Jennifer Suarez De La Rosa

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CS 470 Final Reflection

YouTube Link: https://youtu.be/I0umoxv9pF8

- **Experiences and Strengths:** Explain how this course will help you in reaching your professional goals.
  - What skills have you learned, developed, or mastered in this course to help you become a more marketable candidate in your career field?

    Through this course, I have gained more knowledge about cloud computing. I enjoyed being able to explore AWS further and use tools such as Lambda, DynamoDB, and S3 to become familiar with them and enhance my skills for full-stack development. I have also grasped the importance of testing and attention to detail.

  - Describe your strengths as a software developer.

    My strengths as a software developer include my attention to detail. Specifically, when working with Visual Studio Code, ensuring that the indentation is correct is crucial to ensure that the program runs smoothly. Overall, I have excellent technological problem-solving skills that can be applied to all future programming projects.

  - Identify the types of roles you are prepared to assume in a new job.

    After taking Full Stack Development I and II, I feel that I am better prepared for a career in Cloud Administrating. These courses have taught me the importance of AWS and the reality of how crucial these software are in everyday life.

- **Planning for Growth:** Synthesize the knowledge you have gathered about cloud services.
  - Identify various ways that microservices or serverless may be used to produce efficiencies of management and scale in your web application in the future. Consider the following:
    - How would you handle scale and error handling?

      I would handle scale and error handling by using performance monitoring to identify roadblocks that can impact scaling. In addition, adding an error reporting system or a system that can ensure reports are periodically made to catch any errors or complications.

    - How would you predict the cost?

It is important to keep track of current trending usage and monitor the ups and downs to predict cost. This will allow the pay-for-use and maximize the need and effectiveness.

- What is more cost predictable, containers or serverless?

  The reality of this question is that it will vary depending on the current usage trends. Serverless will be more cost-effective if there is a wave in usage that fluctuates over time. If the usage does not fluctuate and is constant and there is an established usage time, then it is best to use containers.

o Explain several pros and cons that would be deciding factors in plans for expansion.

The storage choice will vary depending on the initial usage and continued usage, such as whether an application will roll out in stages versus be rolled out when the entire application is complete. This will also determine the type of security it has established and if security measures need to be increased.

o What roles do elasticity and pay-for-service play in decision making for planned future growth?

Having a plan with research and data outlining the analysis of expected usage will help determine which route is most cost-effective and efficient.