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August 18, 2023

Assignment name: CS 470 Final Reflection

YouTube Link: https://youtu.be/ZRW-cGKh27Y

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?
    - Skills that I have learned and developed (not quite mastered though) in this course to help me become more marketable in my career field include the ability to migrate apps to a cloud environment, and the ability to utilize AWS features like Lambda and DynamoDB to build and support applications.

- Describe your strengths as a software developer.
    - As a software developer, I think a strength that I have is my ability to pinpoint errors in code and find the proper solutions to them. My time at SNHU taught me early on that it is important for a developer to know how to research answers to issues that spring up. Testing those solutions is another part of being a developer, and that is something I learned to develop into a strength as well.

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

- Types of roles I am prepared to assume in a new job include full stack, front-end, and back-end developer. When I first became interested in software development, I was eager to create new software and little else; however, as I learned more about software development, I realized that working with a team to develop software together is more impactful. I would not mind working on a section of development such as testing to start off and then test new waters as I gain more experience.

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 in a cloud environment by creating functions with Lambda that can detect things like high traffic or when there an error with the app. AWS also scales on its own while also recording errors in logs if those features are needed by developers.

    - How would you predict the cost?
        - I would predict costs by examining the statistics of API requests, storage size, resource usage, etc. and comparing them to a chart of costs from AWS. Depending on how much or how little these numbers go over the

limits that AWS might have, it might be possible get an idea of what range the costs may fall into.

    - What is more cost predictable, containers or serverless?
        - Since containers are constantly running, they might be more predictable in costs than serverless which runs costs according to when it is actually being used. Still, this means that serverless could cost less in the long run.

- Explain several pros and cons that would be deciding factors in plans for expansion.
    - Some pros that would be deciding factors in plans for expansion include reaching more clients/users, adding team members (and adding the potential they have), and having the resources to implement new ideas for the application/software.
    - Some cons that would be deciding factors in plans for expansion include increased costs, increased workload and needing more resources to expand.

- What roles do elasticity and pay-for-service play in decision making for planned future growth?
    - The role elasticity plays in the decision making for planned future growth is that it determines how much someone has to pay based on the resources used. Since finances play a major part in making plans for future things, seeing the average amount of resources and its costs can aid in making accurate plans.
    - The role pay-for-service plays in the decision making for planned future growth is similar to that of elasticity. By looking at the costs of pay-for-service, we can

forecast what future expenses might look like and plan for future growth based on what we are able to afford.