

SNHU

CS 470

Final Reflection

12/16/2022

URL: <https://www.youtube.com/watch?v=D9UGZkRzLtE>

- **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?

Some of the skills I have learned in this course include using AWS services for Full Stack Development, including S3, DynamoDB, Lambda, and API Gateway. The use of Docker containers and working with Angular.

- Describe your strengths as a software developer.

Some of my strengths as a software developer include strong problem-solving skills and working with cloud services, specifically AWS. Knowledge of several programming languages, such as Python, Java, JavaScript, C++, HTML, CSS, and libraries such as React and Angular.

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

Some of the roles that I am prepared to assume in a new job are Full Stack Developer, Cloud Developer, and DevOps Engineer. I am lucky enough that I will be starting a new role next month as a Full Stack Developer.

- **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?

By breaking a monolithic application into smaller, independent microservices, you can more easily scale and manage individual components of the application. This can also make it easier to identify and isolate errors or issues in the event of a failure, as you can focus on a specific microservice rather than the entire application.

- How would you predict the cost?

Both microservices and serverless architectures can help you more accurately predict the cost of running your application. In a microservices architecture, you can more easily predict the cost of running individual microservices based on their resource usage. In a serverless architecture, you only pay for the computing resources you use, and the cost is based on the number of requests and duration of execution.

- What is more cost predictable, containers or serverless?

In general, serverless architectures may be more cost predictable than containers, as you only pay for the resources you use, rather than paying for the cost of running a containerized application continuously.

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

Some pros that would be deciding factors in expansion plans include Scalability, Cost-Effectiveness, Security, and Flexibility. Some cons include Dependency on the provider, data privacy concerns, and how complex the application could get.

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

Elasticity and the pay-for-service model are important considerations for businesses looking to grow and scale using cloud services. Elasticity allows for resources to be quickly and easily scaled up or down to meet changing demand, while the pay-for-service model allows businesses to pay only for the resources they use, rather than making upfront investments in hardware and infrastructure. Both features can help businesses to save money and be more flexible as they grow.