Chase Carney
10/22/2023
CS 470
8-1 Assignment: Final Reflection

https://www.youtube.com/watch?v=efbrfjCcXj4

## Experiences and Proficiencies

What skills have you acquired, honed, or mastered in this course to enhance your attractiveness as a candidate in your professional field?

This course has empowered me to reach my career objectives by equipping me with the expertise and capabilities required to develop full-stack web applications in a cloud environment. I've gained knowledge about AWS, particularly Docker and AWS API, which will enhance my appeal as a candidate in my field. Moreover, I'm committed to ongoing learning and advancement as a software developer.

## Detailing Strengths as a Software Developer

My strengths as a software developer encompass my aptitude for swiftly assimilating new technologies, my robust problem-solving aptitude, and my meticulousness. Additionally, I thrive as a collaborative team member, effectively working with others to accomplish shared objectives.

## Roles Prepared to Undertake in a New Position

I believe I am well-prepared to take on roles such as software engineer, full-stack developer, and cloud architect in a new position.

## Strategies for Growth Planning

Outline various methods in which microservices or serverless architectures may be utilized to attain efficiencies in administration and scalability for your web application in the future.

In my future endeavors, I intend to employ microservices and a serverless architecture to realize efficiency gains in administration and scalability for my web application. Microservices involve dividing a substantial application into smaller, self-contained services, facilitating easier management and scalability, as well as enabling changes to

individual services without impacting the entire application. Serverless architecture entails operating applications without the need to manage any servers. This not only economizes on resources and time, but also reduces the risk of security vulnerabilities.

Addressing Scalability and Error Management

I would implement a monitoring system to oversee the performance of the application, allowing for early detection and rectification of any errors or performance hiccups.

Anticipating Costs

To estimate the operational costs of running my application, I would employ a cloud pricing calculator.

Cost Predictability: Containers vs. Serverless

Containers offer a higher degree of cost predictability compared to serverless solutions. Container expenses are contingent on the resources they consume, whereas serverless application costs are influenced by the number of requests they receive.

The Roles of Elasticity and Pay-per-Use in Decision-Making for Planned Growth

Elasticity and pay-per-use will be integral in regulating the expenses associated with my web application. I'll also closely monitor the application's usage to gauge its cost. If I observe that expenses are escalating, I'll adjust the configuration of my application to mitigate costs.