CS-470 – 8-1 Assignment: Final Reflection – Adrian Bates – 12/18/2022

https://youtu.be/27jMsfR_CoQ

What skills have you learned, developed, or mastered in this course to help you become a more marketable candidate in your career field?

In this course, I learned how to containerize and deploy web applications using both locally hosted Docker containers and cloud-based services at AWS. This aligns with the move towards cloud-based practices in the web development and hosting field.

Describe your strengths as a software developer.

I believe myself to be an adaptable software developer, in that I am able to pick up new software tools relatively quickly and become proficient in these tools. I also enjoy developing software of many types and make my best attempts to make the software that I develop readable, maintainable, and well-documented.

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

I intend to assume the role of Junior Developer for any given software development position. I think that I have strengths in both web and local development, for many different sectors.

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?

Scale and error handling would be handled at a cloud level, where AWS and other providers have integrated services allowing easy scaling and advanced error handling. This is in contrast to the difficulties of local hosting scaling/error handling.

How would you predict the cost?

Since cloud-based services such as AWS provide transparent pricing services, the cost can be calculated depending on the scale of a particular application.

What is more cost predictable, containers or serverless?

It's my opinion that serverless hosting is more predictable since the hosting is wholly controlled by a third party with transparent pricing.

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

Expanding an application to a cloud service has many benefits depending on scale such as enhanced security, reduced cost/maintenance. However, this comes with technical expertise beyond locally hosting an environment.

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

Elasticity and pay-for-service models make it simple to determine cost for hypothetical growth, without complex planning and logistics as involved in locally hosting.