Mikaylah Blunt

CS 470 Final Reflection

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<https://www.youtube.com/watch?v=uOFXy7Q7rlI>

**Experiences and Strengths:**

This course has helped tremendously in learning new skills that can be put towards my professional goals. The skills I have learned would be setting up a serverless application with utilizing AWS, S3, Lambda and DynamoDB. My knowledge base on Docker has also expanded by learning about containerization and such.

My strengths as a software developer would include patience and the willing to problem solve. There are roadblocks no matter what road you go down, but being an efficient problem solver and knowing what route to take that will in the end being able to provide answers and results is how I stay most efficient.

The types of roles I would be prepared to assume in a new job would be Cloud Application Developer, Full Stack Developer, Cloud Automation Engineer.

**Planning for Growth:**

Handling scale and error handling would be to follow the programming guides, log the codes and raise errors immediately. Utilizing the AWS functions would support in error handling as well. Cloud architecture provides a way to scale by creating servers as needed. When you think of error handling, you want to make your code smarter and how to deal with something if and when things go wrong.

Predicting the cost would include considering the amount of requests that the application may make, then estimating per session per user. Serverless is a pay per use model which does make the predictions and calculations a bit easier. Forecasting would also be a great way to base predications on past usage as well.

I would say between containers or serverless, that serverless would be more predictable. Containers are constantly running, and therefore cloud providers must charge for the server space even if no one is using the application at the time. There are no continued expenses in a serverless architecture because application code does not run unless it is called.

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

Elasticity is “The ability to acquire resources as you need them and release resources when you no longer need them” with this service, elasticity is sometimes part of the service itself. They are both an important resource when allocation becomes unknown, and we can’t rely on forecasts. When you have a business constantly changing, you cannot predict usage, and this makes the elasticity and pay for service beneficial.