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CS 470 Final Reflection
https://youtu.be/A1-Bfrta_5k

Experiences and Strengths

This course helped me familiarize myself with cloud development. Specifically working with

AWS which is a major player in the field. I learned how to migrate a web application from local

storage to cloud storage, how to update the application locally and push changes to the cloud,

how to design Lambda functions and their associated triggers, the ins and outs of

containerization and how to use buckets.

My biggest strength as a developer comes from my creativity. I like to think outside of the box

and that helps me with coming up with unique designs and provides unique perspectives for

troubleshooting and debugging.

The role that I am most interested in for a new job would be software development. I also have

an interest in software engineering, QA testing and web development.

Planning for Growth

Scaling and error handling can be dealt with by adhering to best practices and a solid foundation.

Designing the application to make use of modular functions that can be reused and easily altered

makes the scaling process significantly easier and manageable.

Predicting the cost would come down to assessing what resources are being used. Things such as

database storage, function call volume and computing power required would determine the costs.

Containers are less variable than serverless and as such are more predictable. Serverless

functions reactively and as such, pricing may change from instance to instance, but containers

are fixed in nature.

Pros for expansion would be variable pricing based on usage (pay-for-service), AWS community support, service integration and quick deployments/updates. Cons would be linked to security, difficulty in testing and debugging, and vendor reliance.

Elasticity and pay-for-service are the right choice until it becomes simply cheaper to host such services in-house. If it could be calculated that simply hiring the manpower and purchasing the equipment to handle variable loads and traffic would be cheaper, then at that point that would be the better option. More likely than not however, this will likely not be the case, making it more cost effective and consistent to purchase these backend services from a vendor.