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CS 470 Final Reflection

https://youtu.be/cV97gTDmGlc

This course will help me in reaching my professional goals by teaching me how to deploy a full stack application to the cloud. Before this course, I had no experience in using AWS and through it I was able to learn the different services AWS provides as well as how to use them. This will translate well with my career as a software engineer.

I'd have to say my strengths as a developer would be that I'm always eager to learn more, I'm naturally curious, and a tenacious problem solver. I'm prepared to assume roles like software engineer, cloud engineer, and full stack software developer.

Architecting your application to be serverless and divided into microservices can catapult it to be extremely efficient. This is because you're able to essentially divide and conquer. Each piece isn't necessarily reliant on the other which allows you to conduct faster testing, make smoother changes, and incorporate new functions that would otherwise cause an already running system to produce errors due to dependencies. For each microservice, you'll want to have simple tests in place so that when your program experiences errors, you'll know exactly where to look and how to fix them.

Relying on a serverless architecture will also help your application to scale smoothly through every update and iteration. It also prepares you for any sudden high traffic surges so you're not missing out on potential business. Although, because of this, containers tend to be more cost predictable than serverless. This is because when you use containers, you already have a fixed number of resources in place. Serverless is elastic and will provide you either more or less resources depending on the traffic which can cause the cost to fluctuate. Where elasticity and pay-for-service really shine is in peace of mind. It allows you to be more flexible and can make the stress of growing a whole lot easier.