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CS 470

SNHU

CS 470 Final Reflection

YouTube Video Link: <https://youtu.be/sGwZUD6Cn3Y>

Experience and Skills

This course has taught me a lot about web development and how API's work, as well as AWS. While AWS is great to know, what I find was the best skill to learn was understanding how to build and work with APIs. Almost immediately I started applying this knowledge to my current job as an IT Support Specialist. I wrote an application using python to use restAPI to pull assets from one application and upload it to another.

I find that coming up with a solution to a complex program while also choosing which language to use is my biggest strength and one that I apply on the daily with my job. While in IT programming is not too common, I have been using it to automate applications or processes for lower tier technicians. On top of that, programming has assisted me with my up coming position change into DevOps. Within this position I will be using programming, Docker, AWS, and APIs to communicate with local hardware and cloud servers.

Planning for Growth

Serverless makes it quite easy to scale, as its usually as easy as requesting more resources or building a new API/ Web App. As for error handling, using log alerts would be extremely useful, as it would allow me to create alerts for errors and collect the necessary data to fix that error. For a web app specifically, a 404 or invalid input error is as easy as popup or error text.

Predicting the cost is not all that easy, you'd have to apply the cost to a set amount of requests that you expect. Overall, I feel that serverless is more predicable due to the set price of the service. Once you have some history have the amount of traffic you get, it would be easy to predict the amount of growth over the next year and what to expect each month.

Planning for expansion can be quite difficult, especially if it's a brand-new application that's never been used. Going with this, you'd have to overestimate to ensure that the application does not crash, while keeping the price at the absolute lowest to save money. However, having a serverless application using elasticity and pay-for-service would make expansion simple, especially when it comes to resource utilization. These two features allow for auto expansion of resources if requested and could help prevent crashing of the service due to over utilization.