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CS 470 Final Reflection

https://www.youtube.com/watch?v=cLIGlwrc8r8

Experiences and Strengths

The skills learned during the duration of CS470 involve expanding the knowledge of full stack applications to apply them onto a cloud serverless platform. According to Joel Lim from DuploCloud, 94% of companies have migrated to serverless clouds and 85% of companies remaining will try to transition to one. Any software developer that can provide this service has a higher chance of being hired, due to this demand.

My biggest strength as a developer is my growing curiosity to learn more in my field and my determination to push through any errors or challenges that are presented. Within the beginning of this course, I found myself with a challenge setting up my Json extension. I pushed through trying to fix my error and found a very simple and overlook reason for the error. After researching common error issue and requesting possible ideas for error solutions, I stepped back and re-installed everything from the beginning just one more time. I never clicked the create PATH when installing. My drive and stubbornness to need completion drove me to find my solution. This story shows my determination to complete and learn from all challenges that can arise.

Where do I see myself within the field? I see myself within either full stack or frontend. I love the mix of the two roles. I love creating the application and seeing the test successful at the end of the application project. It has a rewarding feeling of accomplishment. I really do love learning more about software development and can use this to study outside of university to keep with the growth of technology trends.

Planning for Growth

With what I learned throughout this course, I plan to adjust lessons from past courses to think how to combine previous course projects to evolve them into a cloud-based version. These personal side projects will explain my knowledge and understand what I learned here in class.

Scaling and error issues are easiest to troubleshoot if the project is checked for errors throughout the creation process. In my beginning course at SNHU, I have learned that if you test multiple time throughout it is easier to pinpoint a few corresponding issues verses having a long list of what could be the error. For example, if I am implementing a get method test is without authorization to see if the request for information completes before adding the permissions to get the data. This will narrow down if the request error is due to incorrect authorization, if the get request has a simple code error, or possibly just a connection to the server to complete the request being down. One tiny error can create a long troubleshoot process that can be avoided.

Predicting the cost for a project can become nerve-racking, but AWS has a AWS Cost Explorer that well allows the developer to visualize and understand the costs and usage of data. After logging into AWS with the users account, they can take advantage of this Cost Explorer feature.

What is more predictable with costs containers or serverless? Containers are more cost predictable with high volumes of traffic. Serverless is more predictable with low volumes of traffic.

Elasticity and pay-for-use play a large decision for planning any start up future company applications. If the future holds a freelance position with a simple web service application for a small business this pay-for-use is perfect for the traffic need for running the register and website of a small business.

Citations

- Lim, Joel. (June 28, 2025). Cloud Migration Statistics: Key Trends, Challenges, and Opportunities in 2025. DuploCloud. https://duplocloud.com/blog/cloud-migration-statistics/
- Malik, Usama. (September 9, 2024). Is Serverless More Expensive Than Containers? Medium AWS Blog. https://aws.plainenglish.io/is-serverless-more-expensive-than-containers-4bca47cce3dc
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