John Mullen

CS-470

October 18, 2022

CS-470 Final Reflection


Video Presentation: https://youtu.be/0p2a4rxOPN4


When it comes the processes and functionalities learned throughout this course, I believe that there is a direct correlation between the modules we worked through and my future career endeavors. Being a computer science major, I foresee years of situations in which I will be coding, testing, structuring, and furthering my knowledge around the topics discussed in this course. Understanding full-stack development seems like an incredibly beneficial asset since one person has the capability to handle an application in its entirety.

Despite the initial issues I experienced before I replaced my SSD, I still believe that my strengths primarily exist in the programming aspect of the development. In combination with many of the new skills learned throughout this course, I believe I will be seeking jobs that can help me embrace and continue to grow these skills throughout my career. I will most likely be looking for something within software development or cybersecurity.

From my experience in this course, I believe that serverless options are incredibly beneficial, especially for new or smaller applications. The fact that serverless often comes with its own support system and you don't need to worry about hardware management or storage management provides an unparalleled benefit. For developers, it allows them to focus on the functionality and features of their application instead of these additional variables. Another benefit is that these serverless application platforms provide pay-per-use and scalable storage and

pricing. This means that when an application is newer and it does not contain a plethora of data, the cost to maintain it is low. While I believe that serverless options provide a more beneficial cost structure, I think that containers are more predictable as the size allotment associated with a container application is known and remains the same.

Often when we are thinking about applications, we need to consider the longevity of the resource and what we are trying to expect from the outcome. Throughout this course, we learned about the pay-for-service resources like we see with AWS, but also the elasticity of the resources so that our applications are always given the allotted resources needed whether it be storage, traffic volume, or any other aspect of the application's functionality. The pay-for-service option grows as needed, but it can also shrink if the resources that have been provided historically are no longer needed, ensuring that the developers are continuing to only pay for what they are using.