

CS-470 Module Eight Assignment

Final Reflection

<https://youtu.be/ZXfsNMHzyw>

- **Experiences and Strengths:**

- Through this course, I feel I learned many valuable skills. I went from having a very vague understanding of what the cloud was and how serverless architecture worked, to now being able to identify several different aspects of how it works. Additionally, I feel that I was fairly comfortable during my time in this course in terms of identifying how to migrate a full-stack application from a local host to a serverless cloud host architecture. I feel as though I still have a ways to go before I can claim I have mastered these skills but do feel comfortable in saying that with perhaps a bit more guidance, I could become very comfortable with it and see myself working through it in the professional world.

As a software developer, I find that I have become fairly proficient at navigating and troubleshooting issues whenever they arise. As such, I would say I have developed an eye for detail and the patience required for combing through code to identify errors. Throughout this whole degree path, I feel as though I have certainly gotten better with programming and coding as a whole. I started out not understanding any of its concepts regardless of script language, to now understanding how to script in several languages at a fairly decent level.

I would be prepared to enter into much of the entry level world. I believe that with a mentor, I could be sculpted in the right direction to becoming very proficient at anything I put my mind to. As such, I feel I am ready to enter some of the entry level cloud related fields, as well as some of the entry level bug-fixing fields.

- **Planning for Growth:**

- Cloud computing truly will become the technology that is used in the future.

Throughout this course, much of the conversation was on how developers can simply develop without having to concern themselves with infrastructure. This is a game changing concept, as it seems that before, the power of the developer was limited in scale the power of the technology available. In the future I would definitely utilize AWS and its many services if given the choice between it and local hosting. The scaling of usage needs is unparalleled in comparison to local hosting. In terms of cost estimates, I would consider the projected growth and past usage rates, which are given through AWS's aaS features.

As it pertains to cost regarding serverless or container-based architecture, I would have to identify the usage in question. Serverless architecture is fantastic if there is not a constant necessity for resources to be up at all times. That being said, however, it may fall short when it comes into contact with high volume usage, especially when considering the cost. In terms of container architecture, the initial cost of usage is lower as there are more baseline expenses associated with paying for idle resources. If there are dynamic workloads that are constantly changing, this could lead to a higher overall cost if resources go idle and are still being paid for. This all factors in when the discussion of expansion comes up. Additionally, Elasticity and pay-for-service play into the decision making when you talk about the need to hire people to manage these growing assets. The question becomes, "does it become more profitable to hire on another employee to help manage these resources, or is it more cost efficient to have the same already existing employees manage it with services assisting them?" This is what it ultimately ends up coming down to.