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Video Link: https://youtu.be/JvZU_r2YvcA

CS-470: Module Eight Final Reflection

This course will absolutely help me reach my professional goals. I've learned a lot about the various aspects and components that are necessary to make a full-stack application and then migrate it to operate on the cloud. I think my strongest skill as a software developer is the ability to creatively apply solutions to identified problems. It's a little broad but I believe it's the best way to sum it up. Due to the nature of the course, I've learned how to develop software as a full-stack developer, meaning I could assume the position of a front-end, back-end, or full-stack developer. It makes me a much more marketable candidate since full-stack developers are rarer than the other types.

The most efficient method of handling scaling for an application would be through cloud migration. The pay-to-use model and resources that the cloud and serverless computing provides would allow for much easier and better optimized scaling of the application. Since the cloud uses a pay-to-use model, the costs of the application aren't unpredictable. The cost simply increases by a rate based on the resources needed by the application. Containers offer a more predictable cost as opposed to serverless computing, but serverless does offer other advantages. Several pros to consider when planning for expansion would be the different services offered by cloud providers like Amazon Web Services, such as API Gateway, DynamoDB, Lambda Functions, etc.

A couple of cons to consider when planning for expansion would be the increased cost of scaling versus the benefits that scaling would provide. As long as the benefits of scaling outweighs the increased cost, scaling is a good option. Elasticity and pay-for-service play a major role when planning for future growth. They will make it easy to monitor the resources and costs of the application to make sure that the benefits and value continue to outweigh the costs of maintaining the application.