

Amber Foster

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CS 470 Final Reflection

<https://youtu.be/a7c1pS-5kdY>

EXPERIENCES AND STRENGTHS

This course has been challenging yet rewarding. I was able to challenge myself in many different ways that will help myself become a more accomplished software developer. The skills that I have learned from this class include cloud development concepts such as containerization, serverless architecture with AWS which will help me in my future career journey as a software developer. Learning full stack development and working with all the different categories and features within Amazon Web Services that has helped me develop a deeper understanding of how cloud computing platforms and APIs gateways work together. This class has been a positive experience and has taught me the importance of learning full stack properly when going into a software development career role as a beginner and working properly is always a great start when coming into a new working environment. In addition, getting great feedback from this class will help improve my skills and becoming a great programmer.

This class has transformed me into a better programmer, and I am more familiar with building and maintaining REST APIs through Amazon Web Services which is great for building and deploying web applications for my future career as a software developer. Also, I have learned important information while taking this class that will help my skills by creating websites with databases that connect to website from the API gateways.

My greatest strength as a software developer is that I'm very eager to learn new skills and technology in order to apply it to real life experience which will help me stay ahead. I can identify and understand the requirements of software while using my creativity and problem-solving skills to help solve problems and find the best solutions. Another great strength is having the ability to be a team player in the field of computer science is a great quality to help other developers around me by having great communication abilities which is great strengths as a software developer.

The type of role that I'm prepared to assume in a new job is having the ability to take on a variety of different tasks and challenges that may be asked of me to-do. By understanding the different types of roles that a computer scientist might be asked to accomplish within a new job, and I feel that my degree has given me the best practices. Everything I have learned from this class has helped me in the process of preparing for different roles and having the skills to use different services and fractures in AWS like migrating applications and serverless computing in order to begin my journey as a full stack developer.

PLANNING FOR GROWTH

Scale and error handling is one of the main advantages in microservices. The process of scaling a web application is by configuring and applying the AWS auto scaling through AWS. AWS can help with mitigating error handling issues with Lambda functions and other services.

The cost of cloud services varies widely, and I would use the cost explorer from Amazon Web Service to help save on the cost and usage and see the different plans that AWS offers for different types of budgets.

Both containers and serverless are more cost predictable than virtual servers. Containers offers a flat rate for managing containers and serverless computing offers a better saving then containers by only paying for the number of resources that you use. Thus, I prefer a serverless approach to go with if I had to choose one.

The pros and cons of deciding factors in plans for expansion applications. Pros of expansion is having high revenue and organization better positioned for success in the future. Cons for expansion is the time building the infrastructure and network management logistics is a big con to overcome.

The roles of elasticity play a big part in decision making for planned future growth is having the correct size of necessary resources that an application needs in order to meet the demand with serverless systems. The roles of Pay-for-service model is simple which is you only pay for the services you use, which is better if you only use little number of resources at a time.

REFERENCES

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<https://docs.aws.amazon.com/general/latest/gr/Welcome.html>

AWS Cloud Migration:

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<https://aws.amazon.com/what-is-cloud-computing/>

AWS Cloud Database:

<https://aws.amazon.com/products/databases/>