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CS 470 Final Reflection

Link: <https://youtu.be/vwpXzgFy2Uw>

This course has helped me in reaching my professional goals by furthering my programming knowledge by helping me to learn how to apply cloud-based development principles and best practices in application development, develop applications that run on cloud-based frameworks, and defending my design decisions to a variety of audiences and in a variety of formats.

The skills that I have learned, developed, or mastered in this course to help me become a more marketable candidate in my career field are how to apply cloud-based development principles and best practices in application development, develop applications that run on cloud-based frameworks, defend the design decisions that I made to a variety of audiences and in a variety of formats, how to use Amazon Web Services (AWS), and how to utilize the containerization process on a full stack application. My strengths as a software developer include my persistence of getting the project done on time, my time management, the speed at which I can pick up a new topic such as AWS and learn how to use it efficiently, and my new knowledge of how to build and either use containerization or integrate a full stack application into a cloud environment. The types of roles that I am prepared to assume in a new job are designing, developing, and testing software and applications for computers and mobile devices.

I would handle scale and error handling with serverless by allowing it to automatically scale when it needs to and by writing a separate application that gathers and processes any errors that occur in the application. I would handle scale and error handling with microservices by first determining the amount of traffic that the website already receives and is predicted to receive and scale the amount of storage that will be needed accordingly and by checking for any errors that have occurred on the website. I would predict the cost by looking at similar projects that the company I am working for has done and seeing if there are any similarities between them and the project, I am working on to help predict the cost. If there are none and there is going to be a learning curve for the team then I would recommend using a pay-for-use system like AWS. Containers is more cost predictable. It is more cost predictable because serverless is normally a pay-for-use type of service.

The pros that would be deciding factors in plans for expansion are more power in the market, increased status and reputation makes it easier to launch a new product, more money, if staff is rewarded then increased motivation, and potentially lower unit cost of a product. The cons that would be deciding factors in plans for expansion are slower decision making and communication, employees may become demotivated as they feel less important to the business, difficulty of management increases, and cost of expansion.

The roles that elasticity and pay-for-service play in decision making for planned future growth are that when determining the potential growth of the company elasticity and pay-for-

service take on the role of where it can stretch to include extra or shrink if potential growth is not met, and where you only pay for the services that were used and not for the ones that you thought you were going to use but did not.