Edrian Saguiped

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CS 470 Final Reflection

Link To Project Two Presentation: https://youtu.be/_Kh0dDuAk_0

- **Experiences and Strengths:** Explain how this course will help you in reaching your professional goals.
    - What skills have you learned, developed, or mastered in this course to help you become a more marketable candidate in your career field?

Skills I've developed are full stack development, dealing with cloud services such as Amazon S3, containerization & orchestration, and API Lambda and Gateway. These all help me because when I want to transfer these skills in a company who works in these areas, I can lend my expertise and knowledge because I can say I'm familiar with these topics.

- Describe your strengths as a software developer.

Strengths I have as a professional developer are coding, specifically in Python and Java. I've learned C++ and NoSQL in the past, although I'm not proficient in them yet. I also know how to look for errors in my code efficiently and in a timely manner.

- Identify the types of roles you are prepared to assume in a new job.

A role I'm prepared for is a software developer due to my knowledge in a few coding languages. I've made multiple projects with each language so I can definitely translate that knowledge over to a company who wants to build various projects using code. Another role is an ISSO. I've dealt with cyber security throughout my major here in SNHU and it's not surprising that security is a main topic for every CS class because it's the most important in my opinion. Without security, there's no assurance for protection so it must be implemented and maintained 24/7. As an ISSO, I can enforce policies and work with security procedures to make sure our systems and servers are safe.

- **Planning for Growth:** Synthesize the knowledge you have gathered about cloud services.
    - Identify various ways that microservices or serverless may be used to produce efficiencies of management and scale in your web application in the future. Consider the following:
        - How would you handle scale and error handling?

I'll handle scale and error handling by using the proper tools and practices needed in order to fix those issues. There's also online resources such as stack overflow I can utilize as well since it has inputs and solutions from software developers all around the world.

- How would you predict the cost?

I would predict the cost by looking at the specific microservice or serverless computing I'm trying to obtain. Questions I would ask myself are: What serverless service am I going for? (AWS Lambda, Microsoft Azure, Google Cloud, etc) What functions will I want? What framework will I want it to have? These are the types of questions I'll ask myself when predicting the cost.

- What is more cost predictable, containers or serverless?

I believe serverless is more cost predictable than containers because if I'm using serverless applications, I'll just have to worry about the vendor taking care of the maintenance and management. As for serverless applications, I'll only be paying for the time my application is executing rather than the entire time my servers are running.

- Explain several pros and cons that would be deciding factors in plans for expansion.

Pros of deciding factors for expansion are:

Attracting New Customers: This can lead to more profit overtime as revenue comes in due to new products and services.

Increasing Market Influence: The more influence a company has, the more it influences market pricing.

Cons of deciding factors for expansion are:

Shortage of financial assets: May need to take out a loan or borrow money in order to buy new equipment or premises.

Increased capital requirements: As the organization expands, so do the workers, facilities, and equipment having a lot more to maintain.

- ○ What roles do elasticity and pay-for-service play in decision making for planned future growth?

Elasticity plays a role in decision making for planned future growth because everything changes so it's important to make adjustments based on workload. Pay-For-Service is important too as many vendors are willing to lend their support services in exchange for a compensation to make things easier for an organization to handle and manage.

References

Allianz Trade. (2021, August 18). *Advantages and disadvantages of expanding a business: Allianz Trade*. Allianz. Retrieved December 10, 2022, from https://www.allianz-trade.com/en_global/news-insights/business-tips-and-trade-advice/advantages-and-disadvantages-of-expanding-a-business.html

Telang, T. (2022, August 23). *Serverless vs containers: Which One to choose?: Traceable app & API security*. Traceable API Security. Retrieved December 10, 2022, from https://www.traceable.ai/blog-post/serverless-vs-containers