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CS 470 Final Reflection

https://youtu.be/P-YvT9MtEBc

Experiences and Strengths: This course has helped me in reaching my professional goals by providing me with a strong foundation in serverless architecture and containers, which are increasingly important tools in the field of software development. I have learned a range of skills, including how to design and implement microservices, how to manage and scale applications using serverless technologies, and how to optimize the performance and cost of my applications. These skills will make me a more marketable candidate in my career field, as they are in high demand among employers looking for experienced and knowledgeable software developers.

As a software developer, some of my strengths include my ability to quickly learn and adapt to new technologies, my attention to detail and focus on quality, and my ability to work well in a team environment. I am also skilled at problem-solving and have a strong understanding of software design principles and best practices.

Based on my skills and experiences, I am prepared to assume a range of roles in a new job, including full-stack developer, backend developer, and technical lead. I am also open to taking on more specialized roles, such as cloud architect or DevOps engineer, depending on the needs of the company and the opportunities that are available.

Planning for Growth: In this course, I have gathered a great deal of knowledge about cloud services, including how they work, the different types of services that are available, and the benefits and drawbacks of using them. I have also learned about microservices and serverless computing, and how these technologies can be used to produce efficiencies of management and scale in web applications.

To handle scale and error handling in the future, I would consider using serverless technologies such as AWS Lambda, which can automatically scale and handle errors in a reliable and cost-effective manner. To predict the cost of my application, I would use cost optimization tools such as AWS Cost Explorer and AWS Trusted Advisor to identify areas of my application where I can reduce costs or optimize performance. In terms of cost predictability, both containers and serverless technologies can be cost-effective options, depending on the specific needs and requirements of the application.

Some of the pros of using microservices or serverless for expansion include increased scalability, flexibility, and cost-effectiveness. Some of the cons may include increased complexity and the need for additional resources to manage and maintain the application. Elasticity and pay-for-service are important factors to consider when making decisions about planned future growth, as they can help to optimize the cost and performance of the application.