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CS 470 Final Reflection

https://youtu.be/Ia0hCJaaS7w

Experiences and Strengths

The skills that I have learned from this course is from the experience I gained in working with Amazon Web Services. I have never worked with AWS before, so learning S3, API Gateway, Lambda, and DynamoDB were great tools for me to learn in regards to cloud development. Cloud development has been increasing in popularity in today's environment, so gaining the experience in AWS will benefit me as a software engineer candidate. As a software engineer, I believe my strengths are that I can effectively provide comments in my code to guide non-technical individuals in understanding what a line of code means. I usually comment every line of code by stating what it does to make me understand what it does and validate what it does to the overall product. The roles that this course has prepared me for are full-stack developer and as a cloud developer.

Planning for Growth

Serverless can be used to produce efficiencies in management and scale for web applications in the future. Serverless can handle any amount of data as it can scale up to whatever the business needs. Even if the business starts with a little amount of data, if the demand of the application suddenly increases, serverless can handle the increased traffic as it is elastic. This would be beneficial for businesses that has huge amounts of data to work with. With serverless, businesses do not need to worry about the infrastructure and overall server management, so developers focus mainly on the code. Therefore, developers would only have to

worry about errors in the code, not from the server. When it comes to the cost of using serverless, developers would follow the pay-for-use model when paying for the cloud services. Developers would only pay for the services they use rather than a one large, fixed price that consists of features and services that the developer might not even use at all. This would make the price predictable as the developer can get a sense of how much the services would cost based on the amount of services they use. Therefore, planning the costs of using serverless can be done and be adjusted to what the developer wants to pay. Finally utilizing serverless is brings in secure cloud development. The root user would be able to assign roles and policies to users to grant permissions for the features and resources they can use. Since serverless is an online cloud service, developers would need to be constantly online to access and manage the application. If the developer has no internet access or really slow internet, then they are out of luck. Overall, cloud development is a great benefit for businesses to pursue as it provides scalability, cost-efficiency, and security for the web application and cloud development.