Andrew Thomas
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CS 470 Final Reflection
https://www.youtube.com/watch?v=5oUw8xis3Pg

This course was quite informational, I knew nothing of serverless computing nor AWS before starting this course and through this course I've seen the entire process of moving a web API to a serverless environment. How to utilize lambda functions as well as the API gateway in order to navigate the web API and develop it to suit my needs. I think a large part of my strength as a software developer is in my desire and need to understand what I'm working with. In this way I like to come up with interesting and new ways to utilize my knowledge to solve the problem I may be having. Coming up with ideas on how to implement something and finding joy in doing so makes it more a puzzle than it is work. Which I think helps in resolving the issue ultimately.

The types of roles I'm actually looking to assume in a new job is potentially as a database developer. Being able to work on the database side of things would be particularly interesting, whether that be through back end or front end implementation. For me specifically I would handle the scaling of a web application through modularity. By making sure that every aspect of the API is modular in and of itself, it can help to facilitate the long term scalability of the project. By being able to separate the different portions of the api into their own functions, it allows for them to be utilized for exactly the logic they require and nothing more. This allows them to be used in a myriad of ways and thus to be scalable by nature.

The prediction of cost would come with test runs to see what might be the demand and use of the product before it is implemented. This would allow to weigh the cost and benefits of going cloud or local storage when it comes to the application and how best to handle it.

More predictable I think would be containers, while you're setting up for a specific amount of resources, you know exactly what you'll have at your disposal and what you're going to be paying for. If you go with serverless, then you have to pay for what is used. Something

could happen where there is more demand for the service than you ever anticipated and thus your costs can increase without you having factored it into your plan or budget.

Planning for expansion can be tricky, it really depends on the demand for your product and how you're implementing your program in the first place. It depends on if you're utilizing local resources or if you're going cloud base. It also depends on if you're using a pay-for-service model or if you're maintaining everything with your own man power. There are factors to consider for both. With the cloud model requiring you to pay a particular amount of money to the services in order to keep it going, whereas with managing it yourself you'll have to rigorously monitor and adjust your budget based on the needs and demands of your service and properly account for them.