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CS 470 Final Reflection

<https://youtu.be/vnSpQZzmBPA>

In the CS470 Full Stack Development II class, I learned a lot that would allow me to reach both my professional goals, as well as learning a lot about cloud services. I had the opportunity to work with both Lambda, API Gateway and DynamoDB in the AWS ecosphere, which are all heavily used in industry today. This experience will make me a more marketable candidate in my career field. One strength I have as a software developer is that I am in my opinion good at troubleshooting bugs and figuring out what doesn't work correctly, this probably stems from my current detail-oriented job and hobbies. One role I would be prepared to assume in a new job is as a junior back-end engineer. I feel as though that would give me the experience I need to move into a more senior role.

When it comes to cloud services, I had a crash course into multiple aspects of AWS in this course. One of which was through building an API through Gateway. There are many ways microservices may be used to produce efficiencies of management and scale, one of which is that you don't need many people managing servers anymore when your elastic AWS account can take any demand you throw at it. Error handling must be done correctly, and thoroughly to ensure no issues when clients are using the software. Predicting cost can be done with Cost Explorer, which while not 100% accurate, can be used to gauge where you're at and where you're going to be barring any extenuating circumstances that change your use drastically. Containers are more cost predictable, as you have a set amount of bandwidth, and you know how and how much it will change if you need to add servers to the mix. There are a few pros and cons that could be deciding factors in plans for expansion, one big pro for cloud services is if you're expecting a short-term influx of users, but don't expect it to last long. The elasticity of cloud services does a very good job at managing things like that. However, if you are seeing client dissatisfaction with containers, you might need to spend a significant amount of money to set up a new server to accommodate the extra usage.