

## CS 470 Final Reflection

This course was fantastic at allowing me to learn AWS and how to deploy serverless applications, since previously I had never touched on this topic. I have developed the skills to properly containerize an application and build out an application in AWS. This project also deepened my understanding of APIs.

As a developer, my strength lies in my ability to understand a system and all its active components. Moving on with the tools I have gained from this course, I look forward to assuming a full stack role.

Microservices offer the ability to handle applications efficiently. Lambda can be used to handle errors, while scaling issues are addressed by AWS' Auto Scaling feature. Auto scaling allows the database to grow based on usage.

For cost management, AWS offers a pricing calculator that provides use-based cost estimates. Though, with high scaling comes rising costs, so it is important to consider the two to find what is the best level of growth. The biggest con to expansion after all, is cost and time. Training employees, and expanding infrastructure are all costly. Elasticity eases expansion cost by limited resources where they are not needed. The pay-for-service model further helps by creating a system that only pays for the service it uses.