

# CS 470 Final Reflection

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08/21/2021

**Presentation:** <https://www.youtube.com/watch?v=A0olqrt7VE0>

## **Experiences and Strengths**

This course helped me to get a comprehensive knowledge about containerization and cloud computing. As a full stack developer, I learned how to use Docker Composer to build the web development project in an independent environment to the operating system. Further, this course allowed me to explore AWS cloud services namely, S3 Serverless hosting, Lambda and API Gateway, in depth. I found that AWS S3 as a simple, reliable and elastic method for hosting a front-end web application. Lambda and API Gateway provides a secure and easy to modify back end environment. It must be noted that AWS Lambda and AWS API Gateway is a much easier way to implement a back-end API for a web application. Consequently, after following this course, I became an expert in Serverless web development at AWS cloud services.

## **Planning for Growth**

In terms of development and deployment, even though AWS Lambda and AWS API Gateway provides a better environment to develop the back-end API step by step on AWS, we must have to develop the back-end outside AWS and integrate it with the front end. That is because we have to deploy a built version of front-end in S3 which is not development supported. Thus, this method requires us to implement the back-end API again in AWS Lambda after developing it outside AWS. I am in the research to overcome this issue and allow me to develop the front-end application online while developing the backend API on Lambda.

AWS provides a separate service to predict the cost of the Serverless hosting which is best fit to the need of resources of the application, though cost explorer. But, it is not a fixed cost like in dedicated servers. When comparing to the containers, Serverless is less cost predictable. But, that would lead to waste of resources and lack of performance of the application.