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CS470 Final Reflection

YouTube Link to presentation: <https://youtu.be/-lG3ker0LDY>

In this course, I have learned valuable skills and lessons in reaching my professional growth. I learned to fully develop a full stack application into the cloud through AWS services. Serverless applications are becoming more prevalent in the industry and having knowledge in the use of cloud services are plus for applying in the industry. The strengths I have for becoming a software developer are my attention to detail and being able to look over each type of code and needed pieces for a full stack application. In looking for a new role, I am looking for an entry-level developer. I have the necessary coding skills and understanding of databases including SQL and NoSQL. I have a foundation in MEAN stack and would look at related fields.

In developing a serverless application, I found AWS services very reliable. In using AWS services, AWS automatically supports autoscaling through API Gateway and AWS Lambda. AWS Lambda functions to handle incoming requests while the API Gateway handles the restful APIs. Predicting the cost is simple as through AWS, you only pay for what you use. Serverless is more predictable than containers since you pay for actual usage while containers can have variable workloads, making it harder to predict the cost.

In planning for growth of and expansion of web application, elasticity and pay-for-service play a role when using serverless architecture. Elasticity is built-in, with automatic scaling to handle traffic seamlessly. This is ideal for applications with fluctuating demand, reducing the risk of over-provisioning or under-provisioning resources. The pay-for-service model ensures you only pay for what you use, making it highly cost-efficient for applications with variable workloads. This model can significantly reduce costs during periods of low usage.