

## 8-1 Assignment: Final Reflection

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CS 470: Full Stack Development II

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### **Experiences and Strengths:**

This course has helped me learn many modern technologies namely AWS and several other concepts like Docker Compose. Some other specific ideas, concepts, and technologies I learned include cloud architecture design, microservices via docker compose, and serverless computing. I believe the most fundamental skills for a software developer are problem solving. I strive to solve the problem at hand and understand what is going on. A close second may be adaptability. In this course we had to learn many different fundamental technologies compared to the Full Stack Development I class. It was cool seeing over the years how Ive learned to adapt to brand new technologies and challenges. There are many roles I could step into: Cloud software engineer, DevSecOps engineer, Full-Stack developer, software tester, just to name a few.

### **Planning for Growth:**

Microservices and/or serverless are great concepts and technologies used to produce efficiencies of management and scale within a web application. AWS has automatic scaling so this is straightforward. Error handling will require custom code within the scripts as well as logging, which is already built within AWS. We can predict cost by using containers and it is a fix resource, like EC2 instances. Container are very predictable as they are fixed cost. A con for containers is that scaling is much harder and possibly more expensive. A good win is to use

serverless which is pay per execution like with AWS S3 buckets. Understanding Elasticity and pay-for-service is paramount to ones business plan and concept of operations for the end result.