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CS 470 Final Reflection

<https://youtu.be/9ZwlbvpLc8A>

- Experiences and Strengths: Explain how this course will help you in reaching your professional goals.
  - What skills have you learned, developed, or mastered in this course to help you become a more marketable candidate in your career field?
    - I have been acquainted with Docker, Docker-Compose, and containerization/orchestration. I was able to further practice my knowledge of AWS and cloud-native architecture. I also was able to become much more familiar with Angular as a framework.
  - Describe your strengths as a software developer.
    - My strengths as a software developer lay in my problem-solving abilities, my foundational knowledge of programming that allows me to pick up other languages and architectures, and the pride I take in writing the best code possible.
  - Identify the types of roles you are prepared to assume in a new job.
    - I am fully confident I can be a Lead Developer on a small team to medium sized team. I feel I am close to

becoming a strong lead developer if I can get more practice with lifecycles and development workflows.

- Planning for Growth: Synthesize the knowledge you have gathered about cloud services.
  - Identify various ways that microservices or serverless may be used to produce efficiencies of management and scale in your web application in the future. Consider the following:
    - How would you handle scale and error handling?
      - A lot of scale is handled by AWS and error handling can be handled within the layers such as API Gateway, Lambda, etc.
    - How would you predict the cost?
      - Use AWS resources to get data to use to estimate and provide a range based off of expected usage.
    - What is more cost predictable, containers or serverless?
      - I am not sure as this would depend on the timeframe. Containers are likely more simple to estimate in one instance but less so over time. AWS scales more smoothly so it can be estimated easier.
  - Explain several pros and cons that would be deciding factors in plans for expansion.
    - Factors of expanding
      - Expected traffic
      - Cost of expansion

- Necessity of expansion(value to user)
  - Cost to UX of expansion
  - How long will expansion last
- What roles do elasticity and pay-for-service play in decision making for planned future growth?
  - They can play a huge role in deciding to go with local vs. cloud services. It is reassuring to have a known scale for growth instead of not knowing how much it will be to buy new server equipment and of there will be trouble with maintenance.