

Josh Mann

8-15-24

CS 470 Final Reflection

<https://www.youtube.com/watch?v=U5ytRGbpups>

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?
 - In this course, I've finally understood the concepts of containers and serverless. Knowing how to leverage them allows me to make changes more quickly and use resources more wisely.
- Describe your strengths as a software developer.
 - I am resourceful. Technical issues usually don't slow me up for long. I find a way or make one.
 - I'm organized and methodical regarding complex tasks.
 - I communicate well with both technical and non-technical people.
 - I constantly learn and improve my methods.
 - I have also learned several trades. Although I don't use all of them frequently, I am able to use lessons learned in one field to find solutions for another that may not be obvious to a specialist.
 - I am hard-wired to help people.
- Identify the types of roles you are prepared to assume in a new job.
 - I make a great consultant since I listen well and can provide options for clients.
 - I am a good manager with a history of managing hardware and software projects.
 - I intend to be an entrepreneur because I am well organized, able to self-manage, and motivated. I also work better when I am uninterrupted and can continuously improve my processes.

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?
 - Scale can be automated to some extent to handle fluctuations in demand. Error handling can be addressed through standardization and consistent version control. (Linkedin, 2024)
 - How would you predict the cost?
 - If starting from scratch, I would set an upper limit for expenditures that are appropriate for the effort. As time passes and historical costs are tracked, a more informed prediction is possible with a baseline and knowledge of upcoming significant changes.
 - What is more cost predictable, containers or serverless?
 - Although the terms containers and serverless have been used interchangeably in much of this course, there are a few key differences. In terms of cost, container cost is more predictable since the resources are always on. Serverless resources are only used on demand.
- Explain several pros and cons that would be deciding factors in plans for expansion.
 - Flexibility is the primary advantage given by serverless architecture. Changes in code, demand, etc., are more easily accommodated.
 - The main downside would be latency.