

CS 470 Final Reflection

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CS-470 Full Stack Development II

<https://youtu.be/fTYGtA6IaVY>

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Experiences and Strengths.

The skills that I have learned and developed to help me become a more marketable candidate in my career field is that I learned how to create Docker files while using MongoDB containers, AWS S3 Buckets, Lambda, API Gateway, DynamoDB, CloudWatch, and Power point video presentations.

My strengths as a software developer are that I have developed technical skills to create and develop programs with other developers. I'm very interested in continuing to learn new developmental skills and very adaptable to changing technology with a positive attitude to learning.

The types of roles that I'm prepared to assume in a new job would be project-based software developer that can collaborate with teams, because I have strong communication and interpersonal skills in addition to technical skills.

Planning for Growth.

To produce efficiencies of management with serverless because it can run application code from anywhere and it allows developers to build and run applications without having to manage servers. Lambda services run your function only when needed and scales automatically. Two types of errors can occur, invocation errors occur when the invocation request is rejected before your function receives it. Function errors occur when your function code or runtime returns an error. Unlike invocation errors, function errors don't cause Lambda to return a 400-series or 500-series status code. If the function returns an error, Lambda indicates this by including a header named X-Amz-Function-Error, and a JSON-formatted response with the error message and other details. You predict the with AWS because you only pay for the compute time that you consume there is no charge when your code is not running. The cost predictability

between containers or serverless is that container applications can be more expensive to run than serverless applications. This is because containers typically require more resources. As a result, your cloud bill will be higher if you choose to deploy a container application on a public cloud provider.

There are several pros and cons that would decide factors in plans for expansion:

Pros:

User-friendly- AWS is easy to use as the platform is specially designed for quick and secure access.

Flexible- AWS lets you use those operating systems, programming languages, and web applications platforms that you are comfortable with.

Secure- AWS provides a highly secure infrastructure to ensure the privacy of your data.

Cost-effective- AWS you need to pay only for the tools and services that you use.

Reliable- AWS performs its tasks accurately when it is required and offers many services that make it more reliable like the capability to automatically recover from failure.

Scalable and Elastic- AWS is scalable because the AWS Auto Scaling service automatically increases the capacity of constrained resources as per requirements so that applications are always available.

Highly Performant- AWS offers a high-performance computing service so that the companies need not worry about the speed.

Cons:

Limitation- in AWS there are some limitations regarding EC2 and security.

Lack of Experts- AWS is the latest invention with a complex infrastructure, only a few professionals are skilled in AWS or any cloud provider.

Price Variations- The prices of AWS services vary based on factors such as cost of land, fiber, electricity, and taxes from region to region.

General Issues- Users sometimes face downtime with servers, it may be because of the power loss or network connectivity with the cloud provider.

The role of elasticity plays in the decision-making for future growth because it is the ability to acquire resources as you need them and release resources when you no longer need them. The role pay-for-services plays in the decision-making for future growth allows you to easily adapt to changing business needs without over-committing budgets and improving your responsiveness to changes.