

CS 470 Final Reflection

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Youtube Video Presentation: <https://www.youtube.com/watch?v=ZaPPWypi2T0>

Experiences and Strengths

In this course, I gained valuable skills in cloud development, especially using AWS services like Lambda, API Gateway, and DynamoDB. These tools are crucial in the industry for building scalable and cost-effective applications, and they align with my career goals.

Skills I've Developed:

Cloud development (AWS, Lambda, API Gateway)

Working with databases (DynamoDB, MongoDB)

Automation and continuous deployment

Security best practices (IAM roles and policies)

These skills will help me in roles like Cloud Developer, Full Stack Developer, or DevOps Engineer. I'm confident in my ability to create cloud-based applications and am ready to take on roles involving cloud infrastructure and backend development.

Planning for Growth

For future growth, scalability and error handling are key.

Scaling and Error Handling:

Scaling: Lambda can scale automatically with traffic. Containers (like Docker) can also scale with the help of services like AWS ECS.

Error Handling: Lambda has built-in error handling. For containers, AWS CloudWatch can monitor errors.

Cost Prediction:

Serverless is more cost-efficient for unpredictable traffic because you only pay for what you use.

Containers may require more upfront configuration but offer more control for steady workloads.

Pros and Cons for Expansion:

Serverless: Easier to manage, automatic scaling, cost-efficient.

Containers: More control but requires more management.

Elasticity and Pay-for-Use:

Elasticity allows resources to scale automatically based on demand.

The **pay-for-use** model ensures you only pay for what you actually use, which is great for cost efficiency.