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CS 470 Final Reflection

<https://www.youtube.com/watch?v=u7zwSHna2Kw>

This course has helped me build a strong understanding of cloud computing with AWS. I learned how to use EC2, DynamoDB, Lambda, API Gateway, and IAM security protocols to create cloud-based applications. These skills will help me in my career because cloud technology is in high demand. By learning these tools, I have become a stronger candidate for software development jobs, especially in cloud computing and backend development.

One of my biggest strengths as a developer is my ability to learn new technologies quickly. This course improved my problem-solving skills, especially in designing cloud systems and keeping them secure. I now feel ready for roles in cloud architecture, backend development, or full-stack development since I understand how web applications work with cloud services.

Looking ahead, I want to keep learning about microservices and serverless computing. These technologies help make applications easier to manage and scale. If an application needs to handle more users, I would use auto-scaling tools and monitoring systems to keep it running smoothly. To control costs, I would track usage with AWS Cost Explorer and set budget alerts. When choosing between containers and serverless, serverless is usually more predictable in cost, while containers give more control for long-running applications.

As businesses grow, flexibility and pay-as-you-go pricing are important for keeping costs low. Elasticity allows an application to handle more users without wasting resources, and pay-as-you-

go pricing ensures companies only pay for what they use. Understanding these factors will help me design smart, cost-effective applications.

This course has given me the skills to build and manage cloud applications. I feel more confident in my ability to work with cloud-based systems, and I am excited to keep improving and learning more in this field.