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Project Two Conference Presentation: CS 470 Final Reflection

<https://www.youtube.com/watch?v=5wn9YNcsnLI>

This course has been an important milestone in my career goals by acquiring knowledge of how to build and deploy full-stack web applications with cloud platforms. I acquired practical AWS tools like Lambda, S3, API Gateway, and DynamoDB, and also acquired knowledge of how to containerize applications using Docker and Docker Compose. These competencies allowed me to learn how to migrate projects from a local environment to the cloud, keeping in mind flexibility and scalability. I also improved at managing access and security through IAM policies and roles. I feel more confident in being capable of explaining technical concepts as well as working on both backend and frontend duties, which positions me for roles such as cloud developer or DevOps engineer.

I now understand how serverless architecture and microservices can support growth while reducing complexity and infrastructure management. For instance, I would

scale with AWS's elasticity features that automatically adjust resources to meet demand, and address errors through proper CORS setup, logging, and throttling to manage usage. Serverless tools like Lambda are ideal for workloads that run on demand, while containers work best for consistently running applications. With AWS's pay-as-you-go pricing model, I can avoid paying for idle resources, making the application more efficient and cost-effective. These principles will be essential as I take on future projects that require adaptability, performance, and room to scale.