**AWS Portfolio Project**

**Project Guideline**

Using what you have learned so far in this course, in addition to any other resources at your disposal, you will be writing a CloudFormation template (either in YAML or JSON). Start by

1. downloading these two files:
   1. [*hamburger.png*](https://drive.google.com/file/d/1K3fMG9WPV_WQj0kaGyT-Kgvc7-MA2hJI/view?usp=sharing)
   2. [*index.html*](https://drive.google.com/file/d/1PeTKStwRcKjowmXxVfi44ghYvkGGDtMp/view?usp=sharing)

These are the requirements that template should meet. The files above will be used as inputs to a website you will be hosting within an AWS S3 bucket. The contents within the S3 bucket should only be accessed via a Cloudfront distribution. Your template should complete the following tasks:

1. Creates an S3 bucket named “new-*firstNamelastName-####”*

***Note:*** *Replace firstName with your first name, lastName with your last name, and # with unique numbers. All lower-case.*

1. Configures the bucket to host a website.
2. Configures a Cloudfront distribution and attach an OAI to that distribution
3. Configures the necessary bucket policy to provide access to the Cloudfront OAI

After your deployment is successful, you should be able to demonstrate:

1. The bucket is created and you can manually upload the two files provided above
2. Successfully accessing the website through the Cloudfront distribution
3. Denying access when trying to access the website directly through S3

***Note:*** *These sites might be a good starting point:*

* [*https://docs.aws.amazon.com/AWSCloudFormation/latest/UserGuide/quickref-s3.html#scenario-s3-bucket-website*](https://docs.aws.amazon.com/AWSCloudFormation/latest/UserGuide/quickref-s3.html#scenario-s3-bucket-website)
* [*https://docs.aws.amazon.com/AmazonCloudFront/latest/DeveloperGuide/private-content-restricting-access-to-s3.html*](https://docs.aws.amazon.com/AmazonCloudFront/latest/DeveloperGuide/private-content-restricting-access-to-s3.html)
* [*https://docs.aws.amazon.com/AWSCloudFormation/latest/UserGuide/aws-resource-cloudfront-distribution.html*](https://docs.aws.amazon.com/AWSCloudFormation/latest/UserGuide/aws-resource-cloudfront-distribution.html)
* [*https://docs.aws.amazon.com/AWSCloudFormation/latest/UserGuide/aws-resource-cloudfront-cloudfrontoriginaccessidentity.html*](https://docs.aws.amazon.com/AWSCloudFormation/latest/UserGuide/aws-resource-cloudfront-cloudfrontoriginaccessidentity.html)
* [*https://docs.aws.amazon.com/AWSCloudFormation/latest/UserGuide/aws-properties-s3-bucket.html*](https://docs.aws.amazon.com/AWSCloudFormation/latest/UserGuide/aws-properties-s3-bucket.html)
* [*https://docs.aws.amazon.com/AWSCloudFormation/latest/UserGuide/aws-properties-s3-policy.html*](https://docs.aws.amazon.com/AWSCloudFormation/latest/UserGuide/aws-properties-s3-policy.html)

**Submission vis Canvas**

1. Once you build this template file and deploy it successfully in CloudFormation, upload it to S3 and provide a link to your S3 object. Be sure it is the object URL.
2. Additionally, record a Loom video of 2-3 minutes to present your project. Begin by deploying your template. While it is provisioning the resources, open your template document and describe what each aspect of the code is responsible for. Once the template has finished, demonstrate the successful connection to your AWS S3-hosted website via the Cloudfront distribution, and denial of a direct connection to the S3 bucket.

As you record, picture your manager or a hiring manager watching this. The quality of communication and the way to convey your presentation needs to be at the level of professionalism you would communicate to a hiring manager.