Cloud Resume Challenge – AWS

# Certification

Task: Get the AWS Cloud Practitioner Foundational Certificate

To do: Pass the exam.

✓

# HTML

Task: Convert my Microsoft Word file resume into HTML?

To do: Make a personal website instead following this YouTube video tutorial: <https://www.youtube.com/watch?v=ldwlOzRvYOU>. This is more than just a resume!

✓

# CSS

Task: Style my resume with CSS?

To do: Make a personal portfolio website instead following this YouTube video tutorial: <https://www.youtube.com/watch?v=ldwlOzRvYOU>. This is more than just a resume!

✓

# Static Website

Task: Deploy my HTML resume as an Amazon S3 static website.

To do: Upload website file to bucket in S3.

✓

# HTTPS

Task: Use Amazon CloudFront to help configure HTTPS for my S3 website URL.

# DNS

Task: Point a custom DNS to the CloudFront distribution using Amzon Route 53

# Javascript

How do I use Javascript to display a visitor counter that shows how many people have accessed the site?

# Database

How do I make the visitor counter retrieve and update its count using Amazons DynamoDB?

# API

How do I communicate with DynamoDB using AWS API Gateway and Lambda?

# Python

How do I create the Lambda function for the API using Python?

# Tests

How do I test my Python code before deployment?

# Infastructure as Code (IaC)

How do I define the API resources – the DynamoDB table, API Gateway, Lambda function – in an AWS Serverless Application Model (SAM) Template and deploy them using the AWS SAM CLI; Infrastructure as Code (IaC)?

# Source Control

How do I create a GitHub repository for my backend code?

# CI/CD (Backend)

How do I set up GitHub Actions such that when you push an update to my Serverless Application Model template or Python code, my Python tests get run? If the tests pass, the SAM application should get packaged and deployed to AWS.

# CI/CD (Frontend)

How do I create a second GitHub repository for my website code suing GitHub Actions such that when I push new website code, the S3 bucket automatically gets updated?

# Blog Post

How do I publish my final work and project?