

Revailo AWS Developer Coding Test

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Task 1: Python Client for ChatGPT

- Write a Python program that, given a ChatGPT API token and a PDF document, connects to the ChatGPT API.
- The client should upload the PDF and carry out a multi-turn conversation with ChatGPT about its contents.
- Responses should be printed to the console.

Task 2: Serverless Web Application with Payment Check

- Create a static serverless web application hosted on Amazon S3 (optionally fronted by CloudFront).
- Store a user data file in S3 containing: `username`, `password`, and `payment status`.
- On login, the web application should:
 - Validate the credentials against the file.
 - If payment is expired, notify the user with a vanilla JavaScript popup.
 - If valid, show a welcome message or grant access.

Task 3: Usage Tracking Service with Terraform

- Use Terraform to provision an API with API Gateway → Lambda → RDS + DynamoDB.
- Lambda behavior:
 - `POST /usage`: accepts a user's usage time, writes an event to RDS, updates per-user aggregates in DynamoDB, and returns a response.
 - `GET /stats/average`: returns the average usage time so far across all users.

What We Provide

- AWS account access (sandbox environment with sufficient permissions).
- ChatGPT API token (for Task 1).

Deliverables

- Terraform code for all infrastructure (modular and reusable).
- Source code for Lambda, web app (HTML + JS + CSS), and Python client.
- A short README with instructions on how to deploy and test the solution.
- Demo of what was implemented.