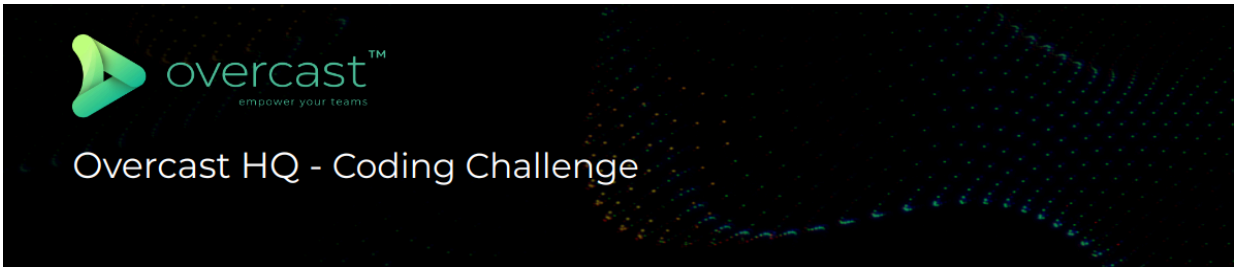

Senior Full-stack Engineer position at Overcast HQ

Date: 29th November 2024

We would like you to use the following scenario as a baseline. Please include the usage of all of the core components. But please use your imagination as you wish to demonstrate your skills and applicability for our business. We are keen to understand your technical skills in the two frameworks, the AWS platform as well as your creative thinking.

This technical test is designed to evaluate your ability to build a small application using Python for the backend and React.js for the frontend. The application should utilize Amazon AWS S3 Buckets, AWS Lambda, and AWS Rekognition. The solution should be deployable using industry-standard methods.

The task should take you between 2-3 hours. We can then review and look forward to you talking us through your approach.

You would need to utilise your own trial AWS account to perform this technical test.

Project Overview

The task is to create a small web application that allows users to upload an image and a video, which are then analysed using Amazon Rekognition to detect labels. The results should be displayed on the frontend. It should also be possible to view the image and the video.

Requirements

1. Frontend: React.js
    - Create a simple user interface that allows users to upload images.
    - Display the analysis results returned by the backend.
    - Allow stored content to be viewed
2. Backend: Python with AWS Lambda
    - Implement an AWS Lambda function that processes content uploads.
    - Use Amazon Rekognition to analyze images for labels and return the results.

    - Store content within Amazon S3
3. AWS Services
    - Use Amazon S3 for storing uploaded images.
    - Use AWS Lambda to handle image processing and communication with Amazon Rekognition.
4. Deliverables
    - We suggest you publish your code in a repo for us to review.
    - And why not record a short video to show the frontend and explain what you have delivered.