

Dudes of 708

Software Engineering Intern Challenge - 2021

Instructions

Pick one of the following tasks and submit it as a GitHub repository link (please remember to make it public so we can look at it). Email your submission to internchallenge@dudesof708.com with the subject: NAME - 2021 - CHALLENGE #. For example, if your name is Jane Doe and you chose to do challenge #1, your subject line is **Jane Doe - 2021 - #1**.

The challenges are open-ended and you can choose to approach them however you want. **Please include a README so someone knows how to use your app.** Your README must include a link to this challenge. You may use any language, and any public library or framework.

Try not to spend more than 2-3 hours.

Challenge 1

TASK: Build an image repository. It can be completely frontend or completely backend, we do not expect you to build both.

Implement a few features into your repository. List these features in your README, but if you need a few ideas, past interns have implemented:

- Likes and dislikes
- See a random image
- Uploading images
- Deleting images

You can obtain images to use in this project for free from [Canva Photos](#) or [Unsplash](#).

Challenge 2

TASK: This task is a biology-related task. It is common for biologists to want tools to analyze DNA/RNA sequences and find mutations. Your job is to build such a tool.

It can be run from the command line or provide a visualization, such as a web application. If you need inspiration, one such example is [MutScan](#). Given multiple DNA/RNA sequences, your tool should find mutations.

Challenge 3

TASK: Make a game. Since this is open-ended, it can be anything you want. To save you time, try to make something simple, like [tic-tac-toe](#) or [chopsticks](#).

The game cannot communicate with a remote server, as it will be tested in an environment without internet. If you need help, check out [the React tutorial](#), which walks you through making tic-tac-toe.