Hi,

Attached is a take-home exercise as part of our interview process. This should take no more than 1-2 hours to complete. Please focus on the key requirements, and once finished, submit your solution as a zip file.

Please do not share either the exercise instructions or your submission publicly - this includes by having a public github repository - please make sure it is submitted privately to us following the instructions below.

Below are the instructions to help you prepare and submit your take-home coding assignment such that your code and its complete Git history are preserved in a single zip file.

Git Repository Preparation

- Use Git for all changes:
  Make sure you create a Git repository for your assignment work. Initialize the repository (with `git init` if not already done) and commit your incremental changes as you progress. Verify your progress with commands like `git status` and `git log` to ensure your commit history accurately reflects your work.
- Keep your commit history intact:
  Do not delete the hidden .git folder at any point. This folder holds your entire commit history which is essential for our review process.

Packaging Your Assignment

- Zip the entire repository:
  When your assignment is complete, zip the entire project folder including the .git directory. For example, if you're using a Unix-based system, navigate to the parent directory of your repository and run:
    - Bash zip -r assignment.zip your_repository_folder
- This command recursively adds all files (including hidden files like .git) into the zip file.
- Verify the zip contents:
  Once the zip file is created, open it (or list its contents) to confirm that both the code files and the .git folder are present. This helps ensure that your Git history isn't accidentally left out.

Submission

- Submit the zip file:
  Send the zipped file following the submission guidelines provided via our email address.. Be sure to check that the file is complete before submitting.

By following these steps, you will provide a submission that not only shows your final working code but also reveals your development process and commit history. This extra context will help us better understand your approach and coding methodology.

Let us know if you have any questions. Looking forward to your submission!

Thank you!