Congratulations on making it to the next stage in our interview process! We would love for you to give our challenge (below) a crack:

A new client wants us to develop the services and create the infrastructure for their new project. The client wants their services to be fast, maintainable, and scalable. The client wants to create a service that can parse XML data and transform it to JSON format.

Please note: All code submitted must be generated by you and without the use of generative ai tools.

Hard Requirements:

- Service must parse XML
  - Parse all the Makes from: https://vpic.nhtsa.dot.gov/api/vehicles/getallmakes?format=XML
  - Get all the Vehicle Types per Make: https://vpic.nhtsa.dot.gov/api/vehicles/GetVehicleTypesForMakeId/440?format=xml
- Service must produce JSON
  - Combine all the of XML information into a single JSON object
  - Produce an array of objects will all of the information from the XML endpoints
- The JSON must look like the following:
  - https://gist.github.com/mbaigbimm/d340e7800d17737482e71c9ad1856f68
- Service must save this transformed data into a persistent datastore
- Service must expose a single GraphQL endpoint to access the transformed data
- Service must contain tests for each data transformation
- Service must follow NodeJS best practices for project structure, and code
- Service must use TypeScript
- Service must by Dockerized

Nice to have:

- Build the service using NestJS
- Build a CI pipeline to build the Service image including a step for your preferred linter and tests.

If you could please send your completed challenge as a GitHub repo, it would be appreciated as I will be sharing your challenge with our team.

It shouldn't take you more than 3 business days to complete. Upon receiving your challenge solution, we will review it and get back to you ASAP! If you need more time for the challenge, please let us know.

Looking forward to receiving your take on the team's challenge!