




2023/2024 SCHOOL YEAR

Preparing for the Power Day Data Case Interview with CapTech (Data Analyst/Data Engineer Associate Consultant)

What to Expect:

NOTE: Power Day interviews are made up of case and behavioral interviews. This is the case guide for Power Day. Please refer to the separate behavioral interview guide as needed. In-person Power Days may take up to two hours, and virtual Power Day interviews are usually completed in an hour and 15 to 30 minutes.

Introductions

We'll trade quick introductions, cover the agenda, and set expectations before getting started.

Data Case Interview

The primary objective is to see how you would analyze a dataset. You will be presented with a business problem and a dataset that you've never seen before. You will be asked to walk through how you would analyze the data and you can expect to be asked how to code or pseudo-code. Lastly, you'll be asked to present your insights on your solution to this business problem using data. The interview will be done over WebEx and you will be asked to take control of your interviewer's screen (they will walk you through that process).

DO

- Choose a quiet and comfortable place for the interview.
- Talk through your thought process.
- Collect your thoughts before jumping into your solution.
- Ask clarifying questions.
- If you get stuck, share what you are trying to resolve.
- Consider your audience.
- Be creative.
- Consider the business case when analyzing the data.

DON'T

- Make assumptions; instead, ask questions about ambiguities.
- Guess if you don't know something; be honest if you are uncertain.

- Spend too much time on one question.
- Ignore data quality issues.
- Jump directly to drawing up a conclusion – think about all the steps in the analysis.
- Rush through the process.
- Be afraid to admit if you're not familiar with what is being asked.

Resume Review

This is the get-to-know-you part of the interview. We want to know about you, your technical experience, and your interest. We will ask questions about your coursework and some of the projects you have worked on. Be prepared to explain your contributions to those projects with an emphasis on the technical/data aspects.

Q&A

This is the get-to-know-us part of the interview. Use this as an opportunity to learn more about working as a developer at CapTech. Think about what you find interesting or the qualities that you value most in a company.

What We Are Looking For:

PROBLEM-SOLVING ABILITY:

We want to see how you comprehend the question and the reason for your solution(s).

COMMUNICATION SKILLS:

Talk it out! Ask for clarity when needed and explain what you are doing as you are coding.

DATA SKILLS:

Data Analyst candidates should be familiar with the data analysis process and have some high-level data skills (like dataset cleansing and merging basics). While you aren't expected to have a coding language mastered, Data Engineer candidates should be familiar with SQL or Python. Most importantly, we're

looking for your analytical skills when presented with a problem.

FOUNDATIONAL KNOWLEDGE:

We want you to be able to draw from your coursework and experience to expand upon solutions.

Tips on Preparation:

PRACTICE:

- Refresh your knowledge of a coding language you may have used before.

STUDY THE DATA ANALYSIS PROCESS:

- While the specifics may vary between different online resources, they should all contain the same fundamental steps. Do some research and get familiar with the process.
- Consider how you may present data-related concepts to different audiences (technical/non-technical).

RELAX:

Much easier said than done, but just remember to breathe and stay calm. The point of this interview is not to trick you or trip you up. We just want to get an idea of how you think and solve problems.

You've got this!

Next Steps:

FULL-TIME CANDIDATES:

Your interviewers will submit their feedback to the hiring team will review the data case feedback, as well as the feedback from the behavioral interviewers to assess which candidates' skills and core values align best with our needs. Offers will be extended to candidates who pass all three interviews. Expect a

decision within 2-4 weeks from your interview date. Please let your recruiter know of any time constraints or offer deadlines.