# Technical Services

## Developer/Engineering Interview Guide

## A few helpful hints

→ Think out loud: As you work through a solution, verbalize your thought process. The interviewer wants to understand how you approach and troubleshoot problems.

→ Embrace hints: If the interviewer offers suggestions to improve your code, take them onboard and explore those ideas. Demonstrating your ability to adapt and collaborate during the interview shows strong problem-solving skills.

→ Communicate: Engage with your interviewer by asking clarifying questions and expressing your thoughts. Don't hesitate to seek their guidance when needed.

→ Prepare adequately: Practice coding on a whiteboard (or similar surface), as it differs significantly from coding on a computer. Conduct mock interviews with a friend to become more comfortable with the experience.

→ Master the fundamentals: Brush up on computer science basics, including data structures and algorithms. A good resource for this is "Introduction to Algorithms" by Cormen. Find study materials that work best for you.

→ Use your strongest language: Solve problems using the programming language you are most proficient in, preferably one you use frequently.

→ Understand the purpose of preparation: While preparing for the interview won't necessarily make you a better engineer, it will help you showcase your true abilities in a challenging interview setting.

→ Organize your thoughts: When you write down your ideas, make sure they are well-structured and clearly explained.

→ Choose the right environment: Ensure your surroundings are free from interruptions, allowing you to focus entirely on the interview.

## Interview Session Preparation

→ During your interview session, you will face a variety of engaging software engineering challenges designed to test your skills and knowledge. In addition, there will be concise discussions on a range of topics, including programming, design principles, relational database management, and your personal work preferences, all crucial aspects of the software development landscape.

→ These dynamic sessions will span five to twenty minutes and may feature a fast-paced, rapid-fire question-and-answer segment that will require you to think on your feet.

→ It is imperative that you possess a strong grasp of all essential programming and design concepts, as they form the foundation of your expertise. Remember, each item on your resume serves as a testament to your skills and experiences, so come prepared to discuss them in depth.

→ Effective communication is vital throughout the interview process and will be a key factor in showcasing your capabilities and fit for the role.

## Coding Challenge Preparation

→ This session will take place on a whiteboard or an online collaborative pad, and you will have the opportunity to demonstrate your coding skills by crafting a solution to a specific programming challenge using the language of your choice.

→ Clear and effective communication will be crucial to your success, so be sure to engage actively with your interviewer. Share your thought process and rationale as you work through the problem, as this will provide valuable insight into your problem-solving approach.

→ To help you prepare for whiteboard interview, here are some helpful resources:
   ◆ https://www.youtube.com/watch?v=xhv0uGqqIvQ
   ◆ https://www.youtube.com/watch?v=XKu_SEDAykw

## Virtual/Remote Interview Preparation

→ If you are joining a virtual interview remotely, it is important to test your video and audio settings before the meeting. This will help you communicate clearly during the interview. For instructions on how to check and adjust your settings, please see the links below. The interview will take place on Google Meet, so make sure to learn about its features and technical requirements in advance.

   ◆ https://support.google.com/meet/answer/10409699
   ◆ https://support.google.com/meet/answer/9308856
   ◆ https://support.google.com/meet/answer/9302964

→ During a virtual interview, it is essential to keep your video camera on and share your full screen throughout the entire session. Before the interview begins, double-check that your video camera is functioning properly and that your lighting is adequate to ensure you are clearly visible. If, during the interview, you encounter any issues with your camera—such as it not working or abruptly stopping—immediately inform the recruiter and request a reschedule for a new interview at a later date. This ensures that both parties can communicate effectively and minimizes disruptions during the interview process.

## Additional Resources

→ Take a look at these links to see examples of interview-type questions and places where you can practice them:

   ◆ Check out CoderByte challenges
   ◆ HackerRank
   ◆ LeetCode
   ◆ Algorithmist

→ Odoo Frameworks

   ◆ https://www.odoo.com/documentation/latest/developer/tutorials/server_framework_101.html
      ● https://www.odoo.com/documentation/latest/developer/reference/backend/orm.html

- ◆ https://www.odoo.com/documentation/latest/developer/tutorials/master_odoo_web_framework.html
  - ● https://www.odoo.com/documentation/latest/developer/reference/frontend/framework_overview.html
→ Link to some of the technology and concepts used at Odoo
  - ◆ Relational Database Concepts
    - ● Relational database - Wikipedia
  - ◆ Class/UML Design concepts
    - ● What is Class Diagram?
  - ◆ Reading Software Code
    - ● Code Reading & Reading
    - ● https://medium.com/@isaaclyman/when-you-finish-reading-this-youll-know-how-to-code-721339942b51

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