QS

Preparing for your upcoming Technical Interview.

Over the past 15 years, QS has gathered some of the best technical interview prep resources to help our candidates do well in the interview process. This prep doc contains information and prep material that people found very helpful in preparation for technical interviews. Preparing and refreshing your technical fundamentals could really help you make a great impression at your upcoming interview(s). Not only will these concepts and principles help you prepare for your interview, but also will help you thrive in your current work experiences and environment.

Resources:

- Big O Cheat Sheet – This is a compilation of search of sorting algorithms that are commonly used. This is a great comp sci refresher to help you efficiently solve problems.
- Leetcode – This is a good resource to practice coding questions. Their platform supports C, C++, Java, Python, Ruby, C#, JavaScript, MySQL and Bash
- AMAZING Book – Cracking the Coding Interview (PDF VERSION available via that link), or if you'd like to buy the hard copy here . This book was written by Gayle Laakmaan McDowell. Many people we have placed have told us that this book is vital in terms of their success. THIS IS A MUST.
- HackerRank – This is an online programming site similar to that of Leetcode. Many firms use HackerRank for coding interviews/exercises. If you practice with HackerRank on your own, you would have a better chance at these interviews as you would not be seeing it for the first time when you interview with the employer.
- TopCoder Development Challenges – Useful coding and debugging challenges on this site. You can test your skills and brush up on core concepts under the "algorithms" tab. Coding and debugging challenges can be found under the "development" tab.
- Tech Development Interview Blog – An interpretation of what you need to know and be prepared for a tech interview. By Steve Yegge
- 5 Essential Phone Screen Questions – Written by Steve Yegge as well. This article addresses the methodology that many employers use for the interview process. This article explains why the interviewer would ask particular questions. This can help discover themes and that can help you win the interview.

Core computer science fundamental questions may seem academic in nature but are very common in today's world of technical interviews. Preparing for these core computer science style questions is a very important practice as many people do not go through these hard core technical topics in their daily work experience.

We have also attached (If you are missing any of these, please let your recruiter know)
1. Object Oriented Design Questions and the answers to those questions are available via #2
2. Object Oriented Design Solutions
3. A document on preparing for Algorithm style interviews

Additional Sample Questions
-What would you use a static variable in a class for?
-Let's say you were writing an autocomplete algorithm for a search engine. What would be an efficient way to store the data to efficiently give a list of autocompletes?
-If C++, name two data structures available in the C++ Standard Library (STL) and describe what they do.