Technical Interview Preparation Document

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General Tips

You will have three technical interviews followed by a HR Discussion.

- Interviewers will be interested in your knowledge of computer science fundamentals like data structures, algorithms, problem solving & databases and how they are used in your solutions.
- Talk through your thought process about the questions you are asked. Our engineers are evaluating not only your technical abilities but also how you approach problems and try to solve them
- Ask clarifying questions if you do not understand the problem or need more information.
- Take time to compose and talk through a more efficient solution rather than starting to code.

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General Tips

- Go over data structures, algorithms and complexity inorder to be able to discuss the big-O complexity of your approaches.
- Brush up on your data structures - lists, arrays, hash tables, hash maps, stacks, queues, graphs, trees, inheritance, heaps. Also sorts, searches, and traversals (BFS, DFS).
- To help prepare for your interviews, check out some videos of Gayle Laakmann McDowell
- Review recursion and iterative approaches.
- Be sure to practice questions in a variety of subjects and difficulty levels.

Rounds of Interview

Want more sample questions? Try below:

1. hackerrank
2. leetcode
3. geeksforgeeks

Resources that offer coding questions to use for practice:

1. Careercup
2. Topcoder
3. Project Euler
4. Facebook Code Lab

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Rounds of Interview

Following will be the rounds of interview

1. Round 1 : Problem Solving and coding
2. Round 2: DS and Algo
3. Round 3: Technical
4. Round 4: Overall Technical fit
5. Round 5: HR

Note : The overall rounds of interview is contingent to feedback.

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Round 1: Problem Solving and Coding

1. Although this is a F2F interview and you will be asked to write code in a piece of paper, please make sure its a compilable code.
2. Make sure code is most optimised
3. Be aware of what cases would break your code
4. Please recollect your thoughts on some recent code performance, scale, tech complex problem which you have solved.

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Round 2 : Design

1. Prepare to write both High level design and Low Level Design
2. Be prepared to talk through your current design in depth. Be prepared to take questions on why do you deem that your current design is the best approach.
3. Go through freshworks architecture videos and articles, we would discuss web-scale application architectures
4. Expectation is that you are able to make right architectural choices given a set of use cases. call-out compromises as well as ask the right questions.
5. Please consider scalability of your design while proposing your solution

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Round 3: Overall Technical Assessment

We are looking to hire candidates that can operate as leaders. In that essence, we are looking at someone who has an overall understanding of the code. Please prepare to talk on the following aswell

1. Impact of your code in the overall SDLC
2. Understand the impact of the code in QA phase. What are the best coding practises that would make the readability (commenting, spacing and other code quality)of the code easier in the QA phase.
3. Prepare to talk about your contribution to a project vs. the teams. Tech process improvement that you have driven with tangible metrics (eg. reduction in latency)
4. How does your current application get deployed? Following are some examples to assess your knowledge depth in deployment
    a. What is your current code coverage
    b. How many machines do you use in deployment
    c. Is the application stateless

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For any further questions please feel free to reach out to your recruiter. Contact coordinates will be listed in their signature