## Interview Preparation Guide | Neelabh Kumar

Topics	Resources
Data structures	<ul> <li>William fiset data structure playlist         (<a href="https://www.youtube.com/playlist?list=PLDV1Zeh2NRsB6SWUrDFW2RmDotAfPbehu">https://www.youtube.com/playlist?list=PLDV1Zeh2NRsB6SWUrDFW2RmDotAfPbehu</a></li></ul>
Educative courses (Please refer to the second page)	<ol> <li>Data Structures in Python: An Interview Refresher.</li> <li>Recursion for Coding Interviews in Python.</li> <li>A Visual Introduction to Algorithms.</li> <li>Data Structures and Algorithms in Python</li> <li>Grokking the Coding Interview: Patterns for Coding Questions</li> </ol>
Interview Cake	A good set of questions here as well. They provide you with an option to do it step by step with a few hints. That's really cool and helpful. I took the 3-week access to the course by paying around \$49. You can always opt for the free option, I think they still provide you with the set of questions, you just don't have access to the interactive hints feature.
Gold	https://leetcode.com/discuss/general-discussion/494279/comprehensive-data-structure-and-algorithm-study-guide In case you are facing difficulty with a particular concept, please go through this post on leetcode. They have listed all the program paradigm and related resources in this article. I found it really helpful, particularly for Greedy, Divide and conquer, Backtracking, Branch and Bound and DP.

- Pay special attention to time and space complexities. Abdul bari's videos, as mentioned in the leetcode article and "Introduction to Complexity Measures" section in Educative's "Data Structures in Python: An Interview Refresher" course should be good enough.
- Please refer to the diagram on the second page for a detailed study guide.
- As you get comfortable with the concepts, start with leetcode questions. It's always best
  to sort the questions based on the company in case you are preparing for a specific
  company.
- This list contains some of the most commonly asked interview questions. https://leetcode.com/list/x3pfqk07
- Particularly helpful for trees, Graphs, DFS, BFS basics. (Look for Vaidehi Joshi's articles
  on trees and graph Data Structures and Algorithms. In case you cross the limit for
  Medium monthly free articles, use incognito)
  - o https://medium.com/basecs/tagged/data-structures
  - o https://medium.com/basecs/tagged/algorithms

I used paid educative and Interview cake subscriptions as I had less than 20 days to prepare for multiple online and onsite technical rounds. You can skip interview cake if you want but I would highly recommend all the highlighted Educative courses. I have specially made this guide for people who have a computer science background, don't have much time and need to brush up on basic and advanced DSA concepts.

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• A good starting point for all data Structure related William fiset data concepts. structure playlist • Video 1 to 37 should be good enough. • Finish it before you move to recursive data structures like Recursion for trees and graphs. • This will make you really comfortable with recursion and Coding Interviews you won't have any problem visualising recursion in the in Python. future. • A must to get comfortable with all the data structure Data Structures in questions. Python: An • You can focus on the Data structures which seem Interview difficult, It's not necessary to go through all of them if Refresher. you are already comfortable (I would recommend hashing, trees, heaps and graphs) • This course covers all the basic searching A Visual and sorting algorithms, It's good to glance Introduction to over it once. If you face any difficulties, I would recommned you spend some time Algorithms. with it. • Not Mandatory (You can **Data Structures** skip this one) and Algorithms in •There are a few good tree Python questions in this one and that's it. You are ready Grokking the for this. Coding Interview: Gold standard Patterns for for coding **Coding Questions** interviews.