

Some resources

Note:- Don't panic , covering all of these resources is not mandatory. Just choose a resource according to your time, weak areas and comfort.

Tutorialspoint.com for quick revision of any topic

Kaggle.com for machine learning competitions/projects

Leetcode.com to practice programming interview questions

OOP in C++ by Robert Lafore for OOP concepts

Pramp.com for mock interviews

[Indiabix.com](https://www.indiabix.com)(You can also prepare HR round questions from here) and [quiz.geeksforgeeks.org](https://www.geeksforgeeks.org) for MCQ practice

Careercup.com and Geeksforgeeks.org for more interview problems[Questions available company wise as well as topic wise]

Operating Systems - Internals and Design Principles by William Stallings(People who already read Galvin can study from Galvin also :))

Databases and Computer Networks(I think tutorialspoint.com is enough, Interviewers don't go so much in depth of these topics, I studied DBMS from Stanford University Tutorials on Coursera)

For design questions:- Recommended to read some sample questions.

Samsung R&D Institute Bangalore(On campus) Experience:-

1st Round:- Global Samsung Aptitude Test with four sections similar to CAT but with easy to moderate difficulty level(Tip:-Don't waste much time on Verbal section if you are weak in English).

2nd Round:- Online Coding Round hosted on co-cubes

Ques1.Find the Lexicographic rank of a string

Ques2.Some simple problem on Array

F2F #1.

General Discussion about my interests, since I mentioned Linux and Operating System, he asked a lot of questions on OS , CPU in general like Semaphore, little and big endian, Block diagram of CPU, priority inversion etc.Tested my practical knowledge with questions like design a system to control fans of this room from Bangalore.

Why should Samsung hire you?

Prepare **OS and Computer Networks** properly for any Samsung company.

F2F #2.

1. A client is having problem of memory defragmentation. Suggest some solutions
2. Snake and Ladder problem
3. Given a stream of characters, devise a method to find longest palindrome at any point of time.
(no codes, just approach)

HR Round:-

General Questions like why you want to join Samsung and what is your college percentage?
Will you be able to relocate to Bangalore?

Round #6 Software Competency test

Happened in March at their SRI-Delhi Campus

One simple coding question: Given a tree in string form, find sum of nodes at kth level

Tree is given in form like : " (1(2())(3())) "

Above tree is

1->LEFT = 2

1->RIGHT = 3

And 1 is root.

Note:- Due to policy change , Round #2(Coding Round) may be replaced by Round #6 this time, so only one coding round).

Amazon(Off Campus):

Round #1:

Online Coding round on Hackerrank with 2 Coding Questions and 20 MCQs(MCQs are mostly from Geeksquiz i.e. mostly previous year GATE MCQs)

Ques1. Trapping the rain water problem

Ques2. Find if there exists an anagram of a string in another string

E.g. find("amazon", "i like maazon") returns true

Note:- Unless mentioned, Bug Free code for each coding problem was required.

Round #2: Telephonic Round

Started with Tell me about yourself.

Questions like why do you like to use Linux.

Coding Ques 1. Copy a Linked list with next and arbit pointers

Coding Ques 2. Some standard ques on tree that I forgot.

Bug free codes for both problems on collabedit.

F2F Rounds at Hyderabad Office

F2F #1 :

1. Given a playlist of songs, give a solution to play each song randomly without repetition. (only approach, no code)

2. Two nodes in a BST are swapped with each other, find the first node that violates the BST property.

F2F #2:

1. Remove all the nodes which lie on a path with sum less than k in a Binary Tree.

2. Find the minimum length unsorted array which makes the whole array sorted.

F2F#3:

1. Replace each element in the array with the next greatest element.(e.g. [1,2,1,4,3] 1 is replaced by 2 , 2 is replaced by 4 and so on.
2. Find if two trees are isomorphic.

Why Amazon should hire you.

Discussion on projects.

F2F#4:

1. String to integer conversion function
2. There are n type of pencil boxes , each having some number of pencils. There are unlimited number of boxes of each such type. Given a number k, find if k pencils can be supplied to the customer using these boxes with condition that you can't divide a box. (Simple Coin change problem).

Discussion on projects.

What was your role in the project.

Asked about the project in which I did significant amount of coding work.

Teamwork questions like how did we handle conflicts in team , how did we divide the work in team.

Note: Try to ask some question at the end of every interview, it shows your interest in interview and company itself.

