# O. CODING PLAN - JAVA

- Watch the youtube play list and practice it on a compiler. Basics and fundamentals of Java
- Solve 30-40 problems in the given list and by to deheive 5 A in Hacker Rank. It will strengthen the basics and Fundament and I can move to High-Level-DSA. Also can Showoff my DSA Skills in my Resume / Linkedin:

After completing this, solve the given a Leet Code

Imblems-

a) Wathe the Java collection By Anus Bhaiya on Youtube

DSA Pro-Plan (Make a Roussian Dac for each topics - problem, code, approach)

1. Hashing

a. Two pointers

3-Sliding Window

4. Linked List

5. Arry Wormup

6. Matrix Warmup.

7. String, Binary South

8. Search and Sort Priority Quoda

9. Gready

10. Stack and Quoues.

11. Recursion.

12. Binary Trees.

13 BST

14. Dynamic Programming.

15. Graphs and general Trees.

Resume (use given template) Linkedin

## 1. CODING INTERVIEW

- O) Don't act like a robot. Little informal connect is needed (not over Friendly). Nume, welege. ... proxet ... Intern. .... Job. Don't say it like reading from somewhere else say it with some expressions, emotions. Maintain smile during some moments.
- Don't Stress. Interviewer is also a human as weef. It will be halpfull whole solving problems for the intervious.
- 14) Always we good Variable names or salving the given problem.
- 2) Write appropriate functions where needed and write proporty Structured code.

3) Always follow identation.

- 4) While writing code, explain eachard every line procedure simuntane ously. This creates a good impression on the interviewer as they are able to tenow your communication skills by the way you are explaing is you write.
- 5) Never Jump into implementation fooding directly. First explain the solution idea clearly to the interviewer.
- 6) As som as interviewer gives you the coding problem, as it all your doubts, assumptions and requirements from the interviewer
- 7) Explain the solution, not just ovally, but by writing few things in the space given by the intervious in Virtual rounds given to you.
  - E) Also use some example input output while explaining the solution.

#### Example:

Problem: Find the number of pairs whose sum is x in

Step-o: Don't be stelent. Ask questions even if we don't have any. The other person thinks you are a good observer and fit for their team.

Questions: 1) All the integers positive/negative? Range of integers.

- a) Size (Array) = ?
- 3) What to return If size is 0?

Step-1: Talk about the problem. Start with giving a test case for the problem.

ax = [1,3,4,5,6] X=11

Palys = (5,6). NI OF pairs = 1

So the answer will be 1. since there is only one pair.

Then say I have a appraches. Bruke Rice and optimised approach with the Space and time complexity. Also while saying this by to write this in the space given in a Short and detailed whey.

Step-a: coding.

9

9

9

7

The namings of the Variable Should be perfect suitable for the given problem. Try to write everything in a idented manner and we functions wherever required. This makes the code look good While writing each line of code speak clearly and explain everything, was comments within the ade if needed. Starting, say Six/madom i may need 1-2 mins to provess the question. Then I will discuss my doubts and approaches with you. Also tell the programming language we are Joing to use.

## interest (into members)

Int count (int [] numbers, int Value.) }

Before thinking, ask the nerviewer that I need some time to think and write the pseudo code on a paper. So that you can report that while writing and explains the code.

Before Submitting the code ask the person the time to crosscheck. And go through the code

IF there is Time fest. Dry nen tre code. Dry nun is

considered as actual testing of the code.

Also ask about CORNER CASE. What should i return if the size is O or no pairs found?

At last, the person will sel you to ask some questions. So make sure to always ask the questions.

1) How did you join XYZ and is un jour rey so far. How a reached sdea.

3) What keh Stack Idoman I team you worked in xyz.

## 2. NON-CODING-SESSION

- \* No. of Linked M Connections Should be high (2000-5000)
  Daily we have to send. Persons who works in a good company
- \* Linkedly Vishilty Principle. Try to show case yourself in
- the Linkedin Application. Make sure to apply for jub daily end give interviews (5 times a day)

No.

\* Good Resume. Don't boast about ourself. Let the sesume Speaks.1

\* Linkadin profile improvement. Fill all the aviculable fileds sections.

All the coding profile and Show offs Should be there in the featured section, Also Feature the Resume on Linkedin.

\* Linkedin Algorithm

-

9

-

\* Dev/Job/Interview.

\* Communication Skills.

- Clarity and depth of explanation.

- Psychological Trick.

Try to speak little louder and confidently

Hero six I am Thomas siby, I have done bsc in Statistics from XYz. And during 3rd of college, I have explosed Java and DSA in depth. In DSA I have explosed these these topics in this this platforms. In dev I have make projects these these on tech stacks these these. I have done intership in abo in this this tech stacks. Causees conferences. At the last of our Indruction Say. Do you want me to explain my projects in detail??

So by doing this the person will only ask questions delated to what you mentioned. And you will be able to explain things. More easily.

don't know? Six I have not explored this topic. But I have explored this topic. But I have explored these and these very weel.

The Stacks we have used in our projects. Try to learns and read the Interview questions based on this stacks.

Also explain the projects in depth and detail. Also my to Find the loop holes cross questions about your project.

Also prepare his the question what are the charlenges faced by you white working on this project. so add some musual and give answer.

Always tell about the Ethatter technical Things not about the non-technical things.

- \* Mirdset: Don't von for the money. It will affect your work quality. Keepin Trying and Practising. You will reach your goal.
- \* Health and GOD.

Eat Home Food Always. Drink Walter Do exerselse.

- \* Resume Trick. Always Make a Resume, Different Thone Mumber and emailed for both. I for Resume and I for Yesternal. Chances will be high.

#### RESUME GUIDE

- \* Education: only UG is required and above it as well. Also Mention your grade percentile.
  - Exportence: Write about recent roles, in reverse Chronologically (10st to first) and the top 3-4 projects which are must referent to the role. Use STAR format (Situation, Task, Action, Result) for projects, with 2-3 lines per project. In action Mention your individual contributions more than what the Leam did (not what we clid, what you individually contributed or led the team to do). In result, use quantitative metals where ver applicable (x0/o accuracy, \$ y cost reduction no role)
  - \* Projects: use metrics. Stacks used and learning By results.

    Keep only top 3-4 projects relevant to the role.
  - \* Skills and courses: Can be from college for line (odd only seputed ones). For skill don't add simething unless you have hards on experience.
  - Awards and Achoivements: Competive cooling contest vatings, Academic prizes, Itackathon rankings and other prestigous research programs. Write precisely and briefly, "X rank percentile in Y contest". These should be in our domain.

## Dev-ROADMAP

## FRONT-END:

Fundamentals: HTML, CSS, JAVascript

a) CSS Frameworks: Makes the website responsive:

Bootstrap, Tailwind css, Foundation, Bulma, skeletun

3) CSS Preprocessors: SASS, Stylus

4) Javascript Frameworks: Angales, React, Vue

5) State Management Libraries:

6) Package Manager: NPM, To Mstall some Ilbranies

7) VOYSION CONTROL SYSTEM: GIT- TO track and manage changes to software Earle

8) Testing

- 9) Deployment: Github, AWS cloud, Microsoft Azure
- 10) Advanced Topics .: API'S.
  - Revise HTML, css, Javasovipt
  - Projects For Practice (Not Rr Resume)
    - · Moving CAR · Analog clock
    - · Cheatsheet Template. · 5 project.
    - · Snake hAme
    - . TIE TAC TOE
  - Learn Angular/React.

#### BACKEND DEVELOPMENT

Node JS: create , open , read , write , delete And close files on the server. can collect Form Data. can add, delete, moditing data in your data base.

<u>DataBase</u>: MySOL, MongoDB.

Java Frame Wertt: Spring-Book, make projects.

#### Projects For Resume

3

ø

Before Starting the project. Write the things we discovered. Features If we have multiple Features in Firel. select the best feature and write why u chose this Feature. Writing thisse things down will save time to prepare for the project explanation. Before the Interview. Also Mention the difficulties and challenges Faced.

#### Projects in Resume

- Heading (max 4 words). The heading should explain the idea.
- Summary (max 4 points). One point when be the Teeh Stacks Used. Rest 3 points will be the description, short and procise.
- 3 projects Should be in our desume.
- Why you are matery the project ?
- project should be based on a Real-Life problem.