



COIMBATORE INSTITUTE OF TECHNOLOGY

(GOVERNMENT AIDED AUTONOMOUS INSTITUTION)

CIVIL AERODROME POST, COIMBATORE-641014.

PLACEMENT AND TRAINING CELL

PLACEMENT YEAR 2020-2021

NAME : SREE SANGAVI M

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DEPARTMENT : M.Sc SOFTWARE SYSTEMS

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COMPANY NAME : HashedIn Technologies

COMPANY TYPE : CORE

JOB DESIGNATION : Software Engineer

SALARY (CTC) : 8 LPA

INTERN OFFERED ? : NO

BOND : NIL

HAVE YOU PLACED ? : NO

COMMENTS ON SELECTION PROCESS :

ROUND 1 : Time limit of the test was 60 minutes. There were 5 MCQ's and 2 programming questions with easy/medium/difficulty level. The code or pseudocode approach to the programming question is to be written. The time and space complexities should also be mentioned.

Have you cleared the round : YES

Details about Questions on 1st round:

QUESTION DOMAIN	QUESTION	SOLUTION / HOW DID YOU APPROACH
Strings	Given an array of strings strs, group the anagrams together. Input: strs = ["eat", "tea", "tan", "ate", "nat", "bat"] Output: [["bat"], ["nat", "tan"], ["ate", "eat", "tea"]]	Sort the Strings and check if they are equal.
Stack	Postfix to Infix conversion	

ROUND 2 :

It was a programming round. Three questions were asked and the code or logic of the program is to be written. The time limit was 60 minutes. The logic along with the complexities should be mentioned.

Have you cleared the round : YES

Details about Questions on 2nd round:

QUESTION DOMAIN	QUESTION	SOLUTION / HOW DID YOU APPROACH
Dynamic Programming	Given three strings A, B and C. Write a function that checks whether C is an interleaving of A and B. INPUT : str1 =abc str2 = def str3 = dabecf OUTPUT : YES	
Dynamic Programming	Find the minimum number of edits (operations) required to convert 'str1' into 'str2'. Input: str1 = "cat", str2 = "cut" Output: 1	
Dynamic Programming	Given an array representing the winning points of stalls at carnival. Starting from any stall find the maximum amount a person can win if he can skip 1 or 2 stalls at a time Input arr[] = {3,1,13,15,4,7,22,1,1,3,1,4} Output = 47 Explanation = win [3,15,22,3,4]	

ROUND 3 :

It was a technical interview. There were some questions from my intern project and academic projects at first. Then there were 2 programming questions and SQL queries to solve. Also questions from OOPS concepts and DBMS were asked. Since I preferred JAVA for programming language, more questions from JAVA Strings and Collections were asked. The round lasted for 50 mins.

Have you cleared the round : YES

Details about Questions on 3rd round:

QUESTION DOMAIN	QUESTION	SOLUTION / HOW DID YOU APPROACH
Array	Given numbers from 1 to n. Find the missing numbers from the array arr[] = {3,4,6,1,2} Missing element : 5 arr[] = { 5,7,2,4,1} Missing element : 3,6	Sort the array. Check if the difference between consecutive elements greater than 1. Store the element in a list.
Strings	Given 2 Strings str1 = "ab#c" and Str2 = "ab#cd#", if it contains '#' character, delete the previous character. Finally, check if both Strings are equal.	Looping through the strings and checking if the ith and i+th character is not "#" then store ith char in StringBuilder and finally check if they are equal.
Dbms	Find the employee with 2nd highest salary.	

ROUND 4 :

It was a technical interview. The first question was to design a database and establish relationship between tables and mapping cardinality was expected. Another program was given and an optimal approach to the problem was asked. The round lasted for 60-70 mins.

Have you cleared the round : YES / NO

Details about Questions on 4th round:

QUESTION DOMAIN	QUESTION	SOLUTION / HOW DID YOU APPROACH
Database	Design db for e-commerce website given table names. Write query for given questions	
Dynamic Programming	Design a snake and ladder approach and given player 1 and player 2 find which player reaches destination first	
Dynamic Programming	Minimum number of dice rolls for player 1 to reach destination	

AREAS TO PREPARE : OOPS, DBMS, Data Structures, Dynamic Programming.
Practice dynamic programming and graph related frequently asked problems.

SITES / BOOKS YOU SUGGEST FOR PREPARATION FOR THE PROCESS :

Geeksforgeeks - dynamic programming,

Leetcode

Javatpoint

sqlservertutorial.net

OVERALL EXPERIENCE : GOOD

GENERAL TIPS : The way you approach the problem is more important than finding the solution. Share the approach you think of then and there to let them know the way you think.



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PLACEMENT AND TRAINING CELL

PLACEMENT YEAR 2020-2021

NAME : Navaneethan R

ROLL NUMBER : 1605034

DEPARTMENT : B.E CSE

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COMPANY NAME : HashedIN

COMPANY TYPE : CORE

JOB DESIGNATION : Software Engineer

SALARY (CTC) : 8.0 LPA

INTERN OFFERED ? : YES

BOND : NO

HAVE YOU PLACED ? : NO

(Please comment this section ***in detail*** to guide your juniors in bright way)

COMMENTS ON SELECTION PROCESS :

ROUND 1 :

5 technical aptitude questions and 2 programming questions

Have you cleared the round : YES

Details about Questions on 1st round:

QUESTION DOMAIN	QUESTION	SOLUTION / HOW DID YOU APPROACH
	To convert the postfix expression into infix Input: ab+ Output: (a+b)	Traverse the entire string push it to the stack if it is operand , pop the two values from stack if it is operator
	Given a sequence of words, u need to print all the anagrams together input:[god,dog,cat,act] output:[[god,dog],[cat,act]]	Create hashmap. add the values (words)to the hashmap corresponding to their key values(sorted word)

ROUND 2 :

Given 3 programming questions. Good understanding in Problem solving and data structures helps to clear this round

Have you cleared the round : YES

Details about Questions on 2nd round:

QUESTION DOMAIN	QUESTION	SOLUTION / HOW DID YOU APPROACH
	Given 2 arrays and k sum value. We need to find the pair which has the max pair value but sum of pair value is no greater than k sumvalue	Fetch all the values one by one value from 1 st array add to every elemnt in 2 nd array compare it with max value

	<p>Given an list containing the number of peoples in house. We are going to help those people because of covid19 we not allowed to help the house which is nearby to tha previously helped house. Find the max people that we will help.</p> <p>Input: List=[5,5,10,100,10,5] Output: 110</p>	<p>Maintain 2 sums values. one is max sum include the previous element.2nd is max sum exclude the the previous element. Max of these two sum is answer</p>
	<p>Given two strings (cat,cut) we need to convert one string to another. Insertion,deletion,replacement will be allowed each have steps, find the minimum number steps to convert.</p> <p>Input: cat, cut output: 1</p>	<p>If the characters are not equal, find all the possible(insert,delete, replace)the number of steps taken to convert and return the minimum of these three values . Do these operations recursively</p>

ROUND 3 :

This is an face to face interview, asked about projects, oops concepts, DBMS, DS related questions.. then they are giving 4problems to solve. It takes 1 hour 15mins

Have you cleared the round : YES

Details about Questions on 3rd round:

QUESTION DOMAIN	QUESTION	SOLUTION / HOW DID YOU APPROACH
	<p>Given string and key word. How many times can form a key string from main string.</p> <p>Input: hi how are u doing I am fine what about you key string: out</p> <p>Ouput:2</p>	<p>Using hashmap count the occurences of words in main string. Then using that hashmap find minimum of charcter occurences in key string is in the main string will be the answer</p>
	<p>Reverse words in string</p> <p>Input: how are you output: you are how</p>	<p>Traverse the string if the blank space occures add</p>

		that word to the resultant list. And reverse the resultant list
	To check whether strings has consecutive numbers or not input: 99100101102 output: yes	First take one character convert to int and check the next number present or not. If it is not present take two characters from string like wise to half length of the string
	Given coins list and k sum minimum number coins required to get that k sum input: [10,20,5,2,50] k=152 output:4	Sort the coins list. Reverse Traverse to the list divide the k value by coin value add to result. And update the k value to mod of k, coin

ROUND 4 :

This is also an face to face to interview. It takes 1 and half hours. He ask me to create database, using that asked some queries. Then lots of DBMS questions like join normalization. Then oops related questions and Some Data structures related question

Have you cleared the round : NO

Details about Questions on 4th round:

QUESTION DOMAIN	QUESTION	SOLUTION / HOW DID YOU APPROACH
	In this problem the give the function while calling the function return a value. Function called continuous n number times. We have find the 11 th greatest element for every call after 10 th call	Create min heap with size 11. after 11 th call the value is greater than the min heap value. Remove the min heap.add the value to the heap and heapify the heap. Min heap is the 11 th largest number
	Three list are given which having the height,depth,length of the box. Like previous problem predefined function are given, it returns the any values from their box values. We need to find the area given solution and arrange the box in decreasing order(small area of box in top of the stack), if u want , will rotate the face of the box	Find area values add it to the list. Sort the list. Compare their x and y value, if current x is greater than the previous x swap the current x and y.

AREAS TO PREPARE :

DSA
DBMS
OOPS

SITES / BOOKS YOU SUGGEST FOR PREPARATION FOR THE PROCESS :

Geeks for geeks
Hackerrank
w3schools
javatpoint

OVERALL EXPERIENCE :

Really been a good experience. Interviewers were fridenly.

GENERAL TIPS :

They mainly focus on problem solving, and how u use DSA for solving problems. Then good undertanding in basics of DBMS , OOPs



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PLACEMENT AND TRAINING CELL

PLACEMENT YEAR 2020-2021

NAME : SRI CHIDAMBARAM C P

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COMPANY NAME : HASHEDIN

COMPANY TYPE : CORE

JOB DESIGNATION : Software Engineer

SALARY (CTC) : 8 LPA

INTERN OFFERED ? : NO

BOND : NIL

HAVE YOU PLACED ? : NO

(Please comment this section ***in detail*** to guide your juniors in bright way)

COMMENTS ON SELECTION PROCESS :

ROUND 1:

This was online test. The questions were from technical aptitude, general aptitude and programming.

Have you cleared the round: YES

Details about Questions on 1st round:

QUESTION DOMAIN	QUESTION	SOLUTION / HOW DID YOU APPROACH
Data Structures	Prefix to infix problem.	General approach

ROUND 2:

This was an online programming round having 3 questions.

Have you cleared the round: YES

Details about Questions on 2nd round:

QUESTION DOMAIN	QUESTION	SOLUTION / HOW DID YOU APPROACH
String	Convert a one word to other	Using operations like replace, remove or add.
Data Structures	Maximum fund distribution in the continuous house	Dynamic programming

ROUND 3:

This was technical interview which went for 40 mins. The interviewer asked to write runnable code for the given problem.

Have you cleared the round : YES

Details about Questions on 3rd round:

QUESTION DOMAIN	QUESTION	SOLUTION / HOW DID YOU APPROACH
Data Structures	To find whether linked list contains a cycle	Using two pointers approach.
Data Structures	To reverse first k elements in list	Get the k elements using stack and append the remaining elements

ROUND 4:

This was technical round which went for 1 hour. The interviewer asked to design a data model with tables and respective attributes for bus travel and registration. He asked to write a query to get the sales pre and post COVID and function to make seating arrangement during COVID.

Have you cleared the round : YES

Details about Questions on 4th round:

QUESTION DOMAIN	QUESTION	SOLUTION / HOW DID YOU APPROACH

ROUND 5:

This was a HR round which went for 15 mins. The interviewer asked about myself, family, hobbies etc.. Then my projects, team involvement, leader ship skills and my area of interest.

Have you cleared the round : NO

AREAS TO PREPARE :

Programming, data structures, data base.

SITES / BOOKS YOU SUGGEST FOR PREPARATION FOR THE PROCESS :

GeeksforGeeks

OVERALL EXPERIENCE :

It was good and positive experience. The interviews were good, challenging and gave a good exposure.



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PLACEMENT YEAR 2020-2021

NAME : G. Karthickkumar

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COMPANY NAME : HashedIn

COMPANY TYPE : CORE

JOB DESIGNATION : Software Engineer

SALARY (CTC) : 8,00,000

INTERN OFFERED ? : NO

BOND : None

HAVE YOU PLACED ? : NO

(Please comment this section ***in detail*** to guide your juniors in bright way)

COMMENTS ON SELECTION PROCESS :

ROUND 1 :

ONLINE TEST:

- Mcq's from Data Structures, Object Oriented Programming, Operating systems and DBMS.
- Two programming questions.

Have you cleared the round : YES

ROUND 2 :

ONLINE TEST:

- Three programming questions.

Have you cleared the round : YES

ROUND 3 :

TECHNICAL INTERVIEW 1:

- Starts with programming questions to solve.
- Followed by some questions on DBMS.
- Questions on programming language like Python and R.
- Questions on fundamental Statistics and Machine learning.

Have you cleared the round : YES

Details about Questions on 3rd round:

QUESTION DOMAIN	QUESTION	SOLUTION / HOW DID YOU APPROACH
Programming in python	Given a list of Person Names which comprises first and last name. where first and last names are combined using underscore. Write a code to separately store first and last name and select the persons first name who are all having repeated last name.	Inside a for loop use two while loops. First while will run until it reaches underscore and store in first names list and another while loop run after underscore until end of line to store last name. The resultant array contains names as characters not as string. So the above lists are done flatten to get names as string. Now using

		count on the last name list, repeated last name persons respective first names are selected and shown as output.

ROUND 4 :

TECHNICAL INTERVIEW 2:

- Starts with questions from DBMS like different kinds of join, various level of abstraction and normal forms.
- Followed by programming questions in python.
- Asked to design modules for safe bus travel in pandemic situation.
- Asked to design Smart meeting intimator for organisation.

Have you cleared the round : NO

Details about Questions on 4th round:

QUESTION DOMAIN	QUESTION	SOLUTION / HOW DID YOU APPROACH
Programming in python	Write a function to print first 100 elements in the array for the first time and second 100 elements when it called second time and so on.	Using pop function. Run a for loop till index 100, pop those 100 elements and print it.

AREAS TO PREPARE : DBMS and Programming.

SITES / BOOKS YOU SUGGEST FOR PREPARATION FOR THE PROCESS :
GeeksforGeeks and Derrick Sherril for coding knowledge.

OVERALL EXPERIENCE : The experience was great. The Interviewers were very nice and supportive.

GENERAL TIPS : Be strong in DBMS and coding on any language.