



COIMBATORE INSTITUTE OF TECHNOLOGY

(GOVERNMENT AIDED AUTONOMOUS INSTITUTION)

CIVIL AERODROME POST, COIMBATORE-641014.

PLACEMENT AND TRAINING CELL

PLACEMENT YEAR 2020-2021

NAME : SINDHUJA N

ROLL NUMBER : 1707051

DEPARTMENT : INFORMATION TECHNOLOGY

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CONTACT NUMBER : 8870323183

COMPANY NAME : VIVRITI CAPITAL

COMPANY TYPE : CORE

JOB DESIGNATION : SOFTWARE ENGINEER

SALARY (CTC) : 9 LPA

INTERN OFFERED ? : YES

BOND : NO

HAVE YOU PLACED ? : YES

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

COMMENTS ON SELECTION PROCESS :

ROUND 1 : This round consists of 20 MCQ's and two coding Questions. It lasts for 1Hr.

MCQ's has both technical (DS, DBMS, OS) and general aptitude(Logical).

Basic technical stuff is enough to crack MCQ's.

Have you cleared the round : YES

Details about Questions on 1st round:

QUESTION DOMAIN	QUESTION	SOLUTION / HOW DID YOU APPROACH
Coding Array	Finding farthest element from 0 th position (for multiple elements with same value print element with least value). I/P: [1 5 10 -10] O/P: -10	Just considered the input array as point in a graph Straight forward Solution by using abs function
Dynamic Programming	2-D array(M*N) is given Minimum steps to reach (M*N) from (0,0) position	Solved by using Optimized recursion

ROUND 2: Technical Round 1 with code pairing (2 panel members). It lasts for 1Hr 10 min.

Initially they given a problem for solving. Expected to solve problem in optimised way.

They concentrated more on problem solving skills like and how I approach the problem, how I am solving initial steps(changed whether I am considering boundary conditions) in the problem.

Totally 2 coding questions were given.

They asked about project that I have done, explanation about the algorithm I used.

Have you cleared the round : YES

Details about Questions on 2nd round:

QUESTION DOMAIN	QUESTION	SOLUTION / HOW DID YOU APPROACH
Coding	It's a thief problem, there are 'n' houses. The thief has to theft the gold in the house, he can't theft neighbour house. Should return the maximum value the thief can stole I/P: array={5, 3, 4, 11, 2} O/P: 16 (thief will steal 5 and 11)	I solved by using dynamic programming approach by comparing maximum value of the previous and the current result.
Coding	2-D Boolean sorted array has given. Find the row with max value I/P: 0 0 1 1 0 1 1 1 1 1 1 1 0 0 0 0 O/P: 3(3 rd row)	Initially I solved with O (n ²) complexity, they asked me to optimised. After solved by using binary search with optimal time complexity.

ROUND 3 : Technical Round 2 with code pairing. It lasts for 1 hr.

They concentrated more on problem solving skills and computer fundamentals.

Have you cleared the round : YES

Details about Questions on 3rd round:

QUESTION DOMAIN	QUESTION	SOLUTION / HOW DID YOU APPROACH
Coding	Finding pair with maximum difference in the array I/P: arr={7, 6, 8, 11,3,2} O/P: (6, 11) 11 and 2 forms max difference but we have to consider the position.	Initially I gave Brute force method , finding pairs with maximum difference. Later I solved by using greedy approach.
DBMS	Given a table , they asked to normalise the table to 2NF . Banking table having attributed like id, account_no, name, Branch.	I normalised the table. But after that they given constraint like joint account conditions.
DBMS	Functional Dependency. Joins (all joins explained). Cartesian Product of a table with example.	Answered.
OS	Designing Page replacement Algorithm (Considering there is no page replacement algorithm exists) for Least Frequently used.	Solved by accessing timestamp from meta data of the page and counting the frequency of page accessing.
OS	Memory Management Page fault Virtual memory Page replacement Algorithms	Answered
DS (Coding)	Design a stack to get minimum element at the top in O(1) time complexity.	Straight forward solution using queue and stack.

ROUND 4 :

General HR (20 min)

Have you cleared the round : YES

General questions about me, my family, background and native.

AREAS TO PREPARE :

Data Structures.
Database Management System.
Operating System.

SITES / BOOKS YOU SUGGEST FOR PREPARATION FOR THE PROCESS :

Aptitude: Careerride, Freshersworld
Jenny's lecture (You tube)
MIT opencourseware (You tube)
Coding: LeetCode, HackerRank

OVERALL EXPERIENCE :

The overall process was good.
Interviewers were friendly and helpful.

GENERAL TIPS :

Be clear and confident in explaining concepts.
Be clear in project explanations.
Focus on area of interest and be strong in any one programming language.
Explain clearly what you know. Don't give vague answers for unknown questions.



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PLACEMENT YEAR 2020-2021

NAME : Rama Adarsh

ROLL NUMBER : 1631041

DEPARTMENT : MSc Software Systems

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COMPANY NAME : Vivriti Capital

COMPANY TYPE : CORE

JOB DESIGNATION : Software Engineer

SALARY (CTC) : 9 LPA

INTERN OFFERED ? : YES

BOND : NO

HAVE YOU PLACED ? : YES

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

COMMENTS ON SELECTION PROCESS : Quiet challenging.

ROUND 1 :

It was an online test. 2 programming questions and 20 MCQs.

Have you cleared the round : YES
Details about Questions on 1st round:

QUESTION DOMAIN	QUESTION	SOLUTION / HOW DID YOU APPROACH
Data Structure	Longest distance from zero in number line.	Take absolute value compare the max value and print the value.

ROUND 2 :

Logical thinking and problem solving. Finally, pseudo code for that solution.

Have you cleared the round : YES
Details about Questions on 2nd round:

QUESTION DOMAIN	QUESTION	SOLUTION / HOW DID YOU APPROACH
Data Structure	Path travelled in a 2d array.	Find the position of elements and manipulate the current position accordingly to achieve destination.

ROUND 3 :

1. To Code all subsets of an array.
2. Form a class diagram and structure.
3. Few technical questions.

Have you cleared the round : YES

Details about Questions on 3rd round:

QUESTION DOMAIN	QUESTION	SOLUTION / HOW DID YOU APPROACH
Data Structure, Back tracking	All subsets of an array	Apply recursive backtracking technique.
OOPS, DBMS	Class, DB query	

ROUND 4 :

Final HR round.

Non – technical, soft skills and communication

Have you cleared the round : YES

Details about Questions on 4th round:

QUESTION DOMAIN	QUESTION	SOLUTION / HOW DID YOU APPROACH

AREAS TO PREPARE :

Data structure, dynamic programming, DBMS, OOPS, OS

SITES / BOOKS YOU SUGGEST FOR PREPARATION FOR THE PROCESS :

www.hackerearth.com

www.hackerrank.com

www.geeksforgeeks.org

www.studytonight.com

OVERALL EXPERIENCE :

Quiet Challenging. Had to think relatively from real life example yet logical and conceptual.

GENERAL TIPS :

Know concepts with real life examples or try relating them.

Strong with any coding language.

Data Structure is the top priority.

DBMS, OS, OOPS added advantage.



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PLACEMENT AND TRAINING CELL

PLACEMENT YEAR 2020-2021

NAME	: Rahul C.S
ROLL NUMBER	1632036
DEPARTMENT	: Data Science
EMAIL ID	: csrahul.6698@gmail.com
CONTACT NUMBER	8072768262
COMPANY NAME	: Vivriti Capital
COMPANY TYPE	: Core
JOB DESIGNATION	: Data Engineer
SALARY (CTC)	: 9 LPA
INTERN OFFERED?	: YES
BOND	: NO
HAVE YOU PLACED?	: YES

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

COMMENTS ON SELECTION PROCESS:

ROUND 1: Online Aptitude and Coding [75minutes]

- *Technical Aptitude (DBMS, code snippets, OS)
- *Verbal Aptitude
- *Logical Reasoning
- *Coding (Hacker Earth Hard and Easy level problems)

ROUND 2: Online Technical Round [1 hour]

In this round, one coding question and one SQL query problem was asked to solve. Also, Questions on the skill set mentioned in resume and current project details.

Have you cleared the round: YES

Details about Questions on 2nd round:

Find all the possible approaches to get the duplicate values of an array

Given two tables, find all possible approaches for finding the average of the marks of the students.

ROUND 3: Online Technical Round [1 hour]

This round started with “Tell me about yourself” and project discussion which went for half an hour. Then one coding questions was given and asked to code in any language of preference. They mainly look for the approach and code that gives less time complexity.

Have you cleared the round: YES

Details about Questions on 3rd round:

Find all the possible approaches to check whether the given string is a substring of another.

ROUND 4: Technical HR [30 minutes]

This round also they asked to introduce myself and discussed about the projects done .After that they asked about previous work experience and questions related to it.

Have you cleared the round: YES

ROUND 5: General HR [20 minutes]

In this round they asked about my passion, my hobbies and some usual HR round questions.

Have you cleared the round: YES

AREAS TO PREPARE:

Be strong in any one coding language.

Develop problem solving skills

Be strong in the basics and ready to answer any questions asked from your resume.

SITES / BOOKS YOU SUGGEST FOR PREPARATION FOR THE PROCESS:

Geek for geeks for data structures and rest other core subjects. Indiabix for aptitude
Interview bits
Leet code, hackerrank -coding practice

OVERALL EXPERIENCE:

The interview went smooth. Interviewers were friendly and gave enough time and hints to come up with the solution. Feel free to ask lots of question to them.

GENERAL TIPS:

Whatever the answer is try to say it with a confidence. Creativity and Innovation is all that matters.