COIMBATORE INSTITUTE OF TECHNOLOGY

(GOVERNMENT AIDED AUTONOMOUS INSTITUTION)

CIVIL AERODROME POST, COIMBATORE-641014.

PLACEMENT AND TRAINING CELL

PLACEMENT YEAR 2020-2021

NAME   : Monika M G

ROLL NUMBER   : 1631029

DEPARTMENT   : Msc software systems

EMAIL ID   : monikamohangeetha@gmail.com

CONTACT NUMBER   : 9489165011

COMPANY NAME   :Payoda technologies

COMPANY TYPE   : CORE

JOB DESIGNATION   : Software engineer

SALARY (CTC)   : 4.5 LPA

INTERN OFFERED?   : YES

BOND   : NIL

HAVE YOU PLACED?   : YES

ROUND 1:

Around 10 aptitude questions were given. In programming section 3 coding problems were given. Levels of difficulty were from easy to medium.

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

QUESTION DOMAIN	QUESTION	SOLUTION / HOW DID YOU APPROACH
Datastructures & algorithms	You are given four integers a, b, x and y. Initially, a≥x and b≥y. You can do the following operation no more than n times: Choose either a or b and decrease it by one. However, as a result of this operation, value of a cannot become less than x, and value of b cannot become less than y. Your task is to find the minimum possible product of a and b (a·b) you can achieve by applying the given operation no more than n times.	If we start decreasing the number, we are better to end decreasing it and only then decrease the other number. So, we can just consider two cases: when we decrease a first, and b after that and vice versa, and just take the minimum product of these two results.
Datastructures & algorithms	The largest minimum distance between the eaten patty-cakes with the same filling amongst all possible orders of eating for that bag. Sample Input 1 : 1 7 1 6 4 4 6 For the sample input 1, patty-cakes can be eaten in the following order(by fillings) : 1 6 4 7 1 6 4 (in this way the minimum distance is 3)	Count the maximum number of times that a number appears, let's call that max. Count the number of numbers that appear max times, let's call that maxfreq. The answer is $\lfloor \frac{n-maxfreq}{max-1} \rfloor - 1$. Say the numbers that occur a max number of times are a, b, and c. We would want to make a sequence that looks like abc...abc...abc. n−maxfreq subtracts that last block, so you have something like abc...abc..... Dividing, $\lfloor \frac{n-maxfreq}{max-1} \rfloor$ gives abc.... The distance that you want is bc... because that is the distance between the two a's, so you have to subtract 1 to get $\lfloor \frac{n-maxfreq}{max-1} \rfloor - 1$. The distance between the b's and c's and all the other numbers occur max number of times is the same thing.

ROUND 2:
Group discussion was conducted in a team of 6. Any general topic would be given. Topic given to me was 'How social media is influencing education system'. Initiating the GD is a big plus.

ROUND 3:
Questions were from area of interest and projects mentioned in the resume.

Have you cleared the round: YES
Details about Questions on 3rd round:

QUESTION DOMAIN	QUESTION
Internship	Explain about the project and explain why certain technologies were preferred over the others.
OOPS	Explain all the concepts in OOPS Abstraction vs Encapsulation Why multiple inheritance is not supported in JAVA? How diamond problem is solved in C++?
DBMS	Why normalisation is needed? Explain all the normal forms in DBMS Why is indexing necessary in a database? Inner join vs Outer join
JAVA	Explain all the data types in JAVA Explain collection framework
Data structures& algorithms	What is stack and queue? Write a program to find all the prime factors of 100.

ROUND 4:
1 or 2 coding problem would be given and must be executed in any of the local compiler. Questions would be asked from skills mentioned in resume. Mentioning github repository in resume can be an added advantage.

Have you cleared the round: YES
Details about Questions on 4th round:

QUESTION DOMAIN	QUESTION
Internship	Explain about internship project. How agile delivery process was followed?
JAVA	What are generics in JAVA? Explain about collection framework. What are annotations in JAVA? How data types are categorised in JAVA? What are Servlets and JSP?
Spring Boot	What is spring boot and why is it used? Explain spring security in spring boot.
Project	Show any live demo of the project mentioned in github.
Data structures& algorithms	Implement Queue using Linked list. Implement binary search tree. Perform Breadth first search and depth first search on the tree.

ROUND 5:
Discussion with unit head of payoda.

Have you cleared the round: YES
Details about Questions on 5th round:

1) Explain your strength and weakness.
2) What do you think are your core skills?
3) What do you think is your greatest achievement?
4) If selected, which tech stack would you like to work on?
5) Would you prefer software engineer, Business analyst or QA role?
6) Mention any 2 academic projects

ROUND 6:
General HR round.

Have you cleared the round: YES
Details about Questions on 6th round:

1) Tell me about yourself
2) Where do you see yourself in 10 years?
3) Mention any of the skills that is not mentioned in the resume.
4) What do you know about payoda and why do you need to join here?

AREAS TO PREPARE:

Skills, projects and areas of interest mentioned in resume.
Data structures and algorithms.

SITES / BOOKS YOU SUGGEST FOR PREPARATION FOR THE PROCESS :

https://www.w3resource.com – SQL
YouTube lectures by Varun singla– DBMS
Head first JAVA book – JAVA
Head first object oriented design book – OOPS
YouTube lectures by ravindrababuravula – Data structures &algorithms
Feel free to learn YouTube lectures – Aptitude

OVERALL EXPERIENCE:

Overall experience was good. Interviewers were very friendly. They would give time to think
and approach a problem.

GENERAL TIPS:

Mention skills in resume that you are strong in. Most of the questions are from resume.
Do not mention anything that you are not sure of.
Practice easy to medium questions in hackerrank or leetcode.

PLACEMENT AND TRAINING CELL

PLACEMENT YEAR 2020-2021

NAME   : SANTHOSHMATHAVAN K

ROLL NUMBER   : 1631045

DEPARTMENT   : M.Sc SOFTWARE SYSTEMS

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CONTACT NUMBER   : 9095187660

COMPANY NAME   : PAYODA

COMPANY TYPE   :CORE

JOB DESIGNATION   : SOFTWARE ENGINEER

SALARY (CTC)   : 4.5 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 :
●   General aptitude
●   Technical aptitude
●   2 Programming questions

Strong in the fundamentals of the Computer science and programming skills enough to crack this round.

Have you cleared the round : YES

ROUND 2 :
Group discussion
Question: Does work life balance exists?

Be calm and speak your points in the given time to you.
Have you cleared the round : YES

ROUND 3 :
Technical Round 1: Duration(45Mins)

●   Since the role is software engineer , they except us to be strong in any one programming
    language.
●   And sound knowledge in Data structures and algorithms is a must to crack this round.
●   Scenario based questions mostly focused in logic and checked whether we have a deep
    understanding of concepts.

Have you cleared the round : YES
Details about Questions on 3rd round:

QUESTION DOMAIN	QUESTION	SOLUTION / HOW DID YOU APPROACH
Programming	What are all the programming languages you know? And the difference the between them .	Answered like proficient in C and C++ and experience of working in Python. And explained the difference between these programming languages.
Data Structures	Which Data structures to use to reverse a set of objects?	Stack. And explained it.
Data Structures	Difference between Trees and Graphs. Real time examples of trees and graphs.	Answered
OOPS	What are the OOPS Concepts you know? What is abstraction and give real time example?	Answered and given example with student class
DBMS	What are different types joins? Explain it with an examples	Left,right,inner,self joins
DBMS	Write a query to get the total number of students and number of students in the class.	Not able to give the full solution given the partial solution but the interviewer accepted it.

ROUND 4 :
Technical Round 2:Duration(1hr 15mins)
- Most of questions where scenario based and discussed about different data structures.
- Data structures with implementation knowledge.
- Answers need to be very precise to the point.

Have you cleared the round : YES
Details about Questions on 4th round:

QUESTION DOMAIN	QUESTION	SOLUTION / HOW DID YOU APPROACH
Data structures	Implement a stack using Linkedlist. Can use online compiler to write code.	Explain the logic and implemented it.
DBMS	What is indexing and purpose of indexing	Answered.
Design	Design the social application like Facebook.	Explained it with the help of graph Data structure.
	Given a scenario from the set of data, at any point of time need to the fetch the N largest data.Which Data structure to use and the explain the complexity.	Maxheap is the best data structure to use and explained the complexity.
	Which Algorithm is used to compress the files?	Not able to answer.The correct answer is Huffman Coding.
	Which algorithm is used to compare two strings.	I answered it like we can use Trie Data structure.But the correct answer is Hamming distance
	Design a Trie data structure	Explained it by creating a Trie class.

ROUND 5 :
Unit head Discussions: Duration(30mins)
- Straight forward questions introduce about yourself.
- Strengths and weakness
- Situation where you felt very happy and sad.
- Always show positive attitude
Have you cleared the round : YES

ROUND 6 :
HR Round : Duration(30mins)
- Introduce about yourself and asked to tell me about something which is not in the resume.
- Explain your strength and weakness.
- Situation where you given back to the society.
- What will you do if you get a higher paid offer than payoda?

Have you cleared the round : YES

AREAS TO PREPARE :

- Be strong in the computer fundamentals like
  - Data structures and algorithms
  - Programming (Proficient in any one programming is a must)
  - Operating systems
  - OOPS
  - DBMS

SITES / BOOKS YOU SUGGEST FOR PREPARATION FOR THE PROCESS :
  - GeeksforGeeks (data structures and algorithms)
  - TutorialPoint (OOPS and DBMS)
  - IndiaBix (Aptitude)
  - Leetcode and hackerrank(Programming)

OVERALL EXPERIENCE :
- The process went for more than week for me be patient throughout the process.
- The interviewer will not except us to answer all the questions asked but they want us to be strong on things which we mention in our resume and the areas we are strong in.
- Strong in fundamental is a must.
- Hands on experience in programming is mandatory.

GENERAL TIPS :
- Everyone will get a chance to excel their skills wait for the right time.
- Be strong and believe.

PLACEMENT AND TRAINING CELL

PLACEMENT YEAR 2020-2021

NAME   : KARTHIK PRABHU P J

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DEPARTMENT   : ECE

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COMPANY NAME   : PAYODA

COMPANY TYPE   : CORE

JOB DESIGNATION   : SOFTWARE ENGINEER

SALARY (CTC)   : 4.5 LPA

INTERN OFFERED ?   : NO

BOND   : NIL

HAVE YOU PLACED ?   : YES

(Please comment this section __in detail__ to guide your juniors in bright way)

COMMENTS ON SELECTION PROCESS :

ROUND 1 : The first round consisted of general aptitude, 3 coding questions and data structures related questions. This round was moderate but need to manage time to answer all questions. There is no negative marking.

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

QUESTION DOMAIN	QUESTION	SOLUTION / HOW DID YOU APPROACH
CODING	To find the minimum product obtained from the given inputs.	Recursion to find the minimum among the given numbers and obtain the product.
	Two more questions were asked based on strings and arrays	Try to approach with the ideas which are striking in your mind. Keep on trying and you will get the right one at the end for sure.

ROUND 2 : GROUP DISCUSSION

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

QUESTION DOMAIN	QUESTION	SOLUTION / HOW DID YOU APPROACH
	How branding of a product can influence people through Social Media?	People were randomly allocated in different set of batches and each one had an opportunity to come up with their point. Try to show positive intent and it doesn't matter whether you are coming up with a single point (or) multiple points but it should be a valid one and speak out loud and clear so that your idea will reach them clearly.

ROUND 3 : TECHNICAL INTERVIEW-I

Have you cleared the round: YES
Details about Questions on 3rd round:

QUESTION DOMAIN	QUESTION	SOLUTION / HOW DID YOU APPROACH
SELF-INTRO		Stick with your basics and show your positive intent. Be natural and don't try to exaggerate anything.
PROJECTS	The interviewer asked about the projects I have done throughout my course.	Be prepared in all the concepts which were incorporated in the projects and deliver them out in an ordered manner.
OOPS	The interviewer asked me to share my ideas on implementing Abstraction concept in the student database.	Storing the sensitive data of the students in a private access specifier and the user can access the data only through a single way by creating a getter () function.
DATA STRUCTURES	The interviewer asked me to reverse a list using any of the DSA concepts	Explained how I can implement using Stacks and Arrays.

ROUND 4: TECHNICAL INTERVIEW-II

Have you cleared the round: YES
Details about Questions on 4th round:
- Started with my intro and explained about the projects I have done and gradually progressed into technical questions.

QUESTION DOMAIN	QUESTION	SOLUTION / HOW DID YOU APPROACH
EMBEDDED SYSTEMS	How to code in Arduino and what are the two main functions that are used in executing the code?	Explained about initializing the separate pins for input and output and the actions involved in the void setup () and void loop () functions.
DATA STRUCTURES	Implement a queue using Linked List (using any of the languages we have known)	Using an online compiler I implemented the queue using linked list with the help of pointers in C. Time management is important.
TECHNICAL THINKING	What are all the things to be taken care for implementing an elevator system?	Explained about the proximity sensor and

		how it can be applied on controlling the elevator and how the motor can be controlled using H bridge switch.
RESUME	Explain in detail about Cloud-Computing and how it works.	Explained how it enhances the data transmission via cloud and the functioning of servers in the normal time and in peak hours.

ROUND 5 : UNIT HEAD DISCUSSION

Have you cleared the round: YES
Details about Questions on 5th round:

- Self-Intro.
- The interviewer asked me to explain my projects in detail.
- Asked about my family.
- My strength and weakness
- Be frank and express your character with dignity.

ROUND 6 : HR INTERVIEW

Have you cleared the round: YES
Details about Questions on 6th round:

- It was a General HR round. It lasted for 30 mins.
- Self-Intro
- Speak about yourself apart from the resume
- Be genuine and answer their questions honestly. They expect you to be natural and friendly.
- Don't exaggerate and provide them false contents. Try to be genuine and true to your nature.
- The thing I love the most
- The reason of taking Electronics stream
- The reason of switching from Electronics to IT
- My hobbies
- My family background
- It was quite a relaxed round. They mainly tested the communication skill and the situation handling technique.

AREAS TO PREPARE:
- Aptitude
- Coding
- Data Structures
- OOPS

SITES / BOOKS YOU SUGGEST FOR PREPARATION FOR THE PROCESS:

- Geeksforgeeks
- RS Agarwal
- Indiabix
- W3Schools
- Tutorialspoint
- Leetcode
- Hackerrank
- Jenny's Lectures (YouTube)

OVERALL EXPERIENCE:

This was an overall exciting experience and was hoping to get selected in the end. The Interviewers were friendly and had a good interaction with them. Also they were ready to answer our questions at the end of the interview from which I came to know their experiences inside the company.

GENERAL TIPS:

Do prepare and practice coding frequently. Also focus on solving aptitude within allotted time. Try to clear the first round as the other rounds may depend on the presence of mind and your knowledge on the subjects you have learned before. Be positive and keep a smile on your face. Keep on trying. Wish you all the best!

PLACEMENT AND TRAINING CELL

PLACEMENT YEAR 2020-2021

NAME   : G. Kaviya Manju

ROLL NUMBER   :1704083

DEPARTMENT   : ECE

EMAIL ID   : gkaviyamanju@gmail.com

CONTACT NUMBER   : 9751450873

COMPANY NAME   : PAYODA

COMPANY TYPE   : CORE

JOB DESIGNATION   : Software Engineer

SALARY (CTC)   : 4.5 lakh per annum

INTERN OFFERED ?   : NO

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 :

1.Aptitude (General, logical)(10 questions)

2. 3 Programming questions(arrays, mathematics, etc)

Have you cleared the round : YES

ROUND 2 :

Group Discussion about the Common topic.(How social network transform the Education?)

Have you cleared the round : YES

ROUND 3 :

QUESTION DOMAIN	QUESTION	SOLUTION / HOW DID YOU APPROACH
Data Structures&Algorithms	Stack, Queue, linked list,Graphs, Trees(Theory+program)	
oops	Encapsulation, Inheritance (All basic concepts with programming)	
C Programming	Sorting programming(Quick sort, Insertion sort)	
puzzles	Mathematical puzzles	

Have you cleared the round : YES

ROUND 4

Details about Questions on 4th round:

QUESTION DOMAIN	QUESTION	SOLUTION / HOW DID YOU APPROACH
Project	Basic understanding of project.	
Data structure	Real time examples(Which data structure is used to implement the social network?Graph) etc..	

Have you cleared the round : YES

Round 5:

General questions(Tell me about yourself, family background, etc..)

AREAS TO PREPARE :

Programming language(Be strong in atleast any one of the language)

Data structures, OOPS, Basic DBMS concepts.

SITES / BOOKS YOU SUGGEST FOR PREPARATION FOR THE PROCESS :

Geeks for Geeks, Hackerrank, Hackerearth.

Feel free to learn(Youtube channel)for Aptitude .

Jenny Lectures (You tube).

OVERALL EXPERIENCE :

Hr was very friendly overall process was very nice.

GENERAL TIPS :

Be confident.

Be yourself. Have a positive Attitude.

Best of luck.