

QUALYS EXPERIENCE - Sugriv Arbad **(for developer position)**

There were 3 rounds :

- 1] *Aptitude (Proctored – Camera on)*
- 2] *Technical round 1 (Face to Face)*
- 3] *Technical round 2 (Face to Face)*

1] Aptitude (1 hr) :

I don't remember exact questions for aptitude but I can guess

- *basic math MCQ questions*
- *basic computer science MCQ questions.*
- *Most of questions were on JAVA MCQ.*
- *two coding problems*

2] Technical round 1 (55 min) :

- *first he asked questions based on my introduction and projects for almost 15-20 minutes discussed on it*
(Note : I have written my intro on below pages and also attached resume)
- *what are the 4 pillars of JAVA.*
- *What is Polymorphism and its types*
- *What is inheritance, Can you give real life example of inheritance*
- *What are different sorting techniques*
- *Which are linear datatypes and non-linear datatypes*
- *what is linked list and its types*
- *which one is good? array or linked list*
- *What are other data structures*
- *difference between Stack and Queue*
- *Where Stack and Queue is getting used in your systems*
- *what is Tree and what are tree traversal techniques*
- *What is Binary Tree*
- *what is DFS and BFS (related to tree)*
- *what is Dynamic Programming*
- *How you will test a code*

- Which linux commands do u know
- do u know scp command, what it do
- What is chmod command
- If I want to give read and execute permissions to user on particular file. So, How you will write a command
- If you want to give style to body tag, so How you will write it in CSS file
- As I had mentioned JQuery in resume so he asked - if id or class is given to tag, how u will make changes related to tag using JQuery
- He asked me to write two queries on Students and Departments databases
- write code for reversing a number(256 => 652) whichever language you prefer
- write code for counting characters in string whichever language you prefer
- Do have any questions for us
(Don't miss this opportunity, It creates impression on interviewer)
So I asked
 - 1) On which projects company is currently working on
 - 2) How much gap is there between academic learning and Industrial learning and How I can fill up that gap

3] Technical round 2 (1 hr 15 min) :

- He didn't asked for my intro. He introduced himself and directly started
- Name of data structure which accepts unique value
- As HashSet (Java) accepts unique values, If we try to put duplicate values into it what that method should return
`HashSet.put(duplicateElement);`
- Time Complexity of get() method in HashMap (Java)
- Which data structure is present at index of HashMap
- As HashTable complexity is $O(1)$, But in what case it can go upto $O(n)$
- When you put [key, value] pair in HashMap index, so on what basis you will put into that index
- write a program for reversing a linked list

- what are Tree traversal techniques
 - what is BFS and DFS
 - What is dynamic programming and give one example where you have implemented
 - where do u practice problem solving like any technical platform (e.g. hackerrank, Leetcode)
 - how many problems you have solved on hackerrank and categorize them in easy, medium and hard
 - give solution for the problem :
 suppose you have array of distinct integers one another number 'm' given to you, so find out pair from array such that sum of pair is equal to 'm'
 then he asked me to give different approaches and complexity for those. So, I gave him 3 different approaches and also used hashtable. we discussed it almost for 15 minutes
 - Suppose you have 2 tables Students and Departments. write query to get department wise count of students.
 - Do have any questions for us
 (Don't miss this opportunity, It creates impression on interviewer)
 So I asked
 - 1) Currently on which products your organization is working on
 - 2) Please can you tell What culture your organization do follow
 - 3) As your organization do use cloud technologies, so which cloud services do you use.
 - 4) Can you give me personal feedback like, technically how I can improve on myself to fit into your organization if at all I get selected
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My Intoduction :

Note 1 : I have prepared two Intro's.

- 1] Technical Intro for Technical round
- 2] Non-Technical Intro for HR round

Note 2 : *I have not given such lengthy intro which I have written below. I tried to fit it in between 1 to 2 minutes by deducting some points from it.*

1] Technical Intro :

Hello sir,

My name is Sugriv Arbad and I'm from Maharashtra, Beed District. I have graduated from Camp Education Society, Nigdi. During graduation I was always in top 10 list and regular participant for coding contests organized by different colleges. Since, last 2 years I'm organizing coding contests for students.

Now I'm pursuing my Master's degree in Computer Application from Department of Computer Science, Pune University.

In 1st semester I came across concept called Predicate logic and formal ways, where I learned how much it is important to have clarity of thought before writing program. Also I learned GOFER language which is based on recursive approach.

In 2nd semester I did two projects, first one I wrote my own memory allocation function like malloc() in C and another in networking, where server is sending file to multiple clients.

In 3rd semester I opted course called ADT where I developed interest in PostgreSQL.

In 4th semester I learned DOCKER and some basic concepts of cloud computing and also developed my business intelligence through PDM course.

In 5th semester, I completed my Internship from "Genus IT Solution" where worked on project "ECOMMERCE SHOP" using PHP and MySQL.

In 6th semester, I'm working on source code of PostgreSQL doing some minor changes in it and side by side working on a project "INVESTMENT IN AUTOMOBILES" using Python, Kafka, JS, JQuery which is in progress. These are the things which I have learned so far and looking forward to learn more.

Thank you!

2] Non-Technical Intro :

Hello sir,

My name is Sugriv Arbad and I'm from Maharashtra, Beed District. I completed schooling from my village where I was always in top 3. I have also won first prize for philosophical debate contest and for 2 times won first prize for math contests.

In 12th standard I was first runner up for chess contest.

I have graduated from Camp Education Society, Nigdi. During graduation I was always in top 10 list and regular participant for coding contests organized by different colleges. Since, last 2 years I'm organizing coding contests for students.

I was a part of world record through ISKCON organization during lockdown for distributing most no. of meals to people those who were not able to afford.

Also I'm management member and anchor for youth program organized by ISKCON.

Now I'm pursuing my Master's degree in Computer Application from Department of Computer Science, Pune University.

I have worked technologies like C, Python, Java, Haskell, Erlang, PostgreSQL, SQLite, Linux commands, Vim editor, Javascript, JQuery, HTML, CSS, Docker, KAFKA.

These are the things which I have learned so far and looking forward to learn more.

Thank you!

PFA : MY RESUME ON NEXT TWO PAGES

Sugriv V. Arbad

I am exploring source code of PostgreSQL.

I like logical discussions & debates.

I was also a part of world record for providing meals to people during lockdown.

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📅 20/02/1998

☎ 9158283547

🌐 <https://www.linkedin.com/in/sugriv-arbad-a7a529164/>

COMPETENT :

C, PostgreSQL, Vim editor, Linux(ubuntu) CLI, Bash shell, dynamic programming

BEGINNER :

Haskell, Python, SQLite, GDB, git, Javascript, jQuery, HTML/CSS, Erlang, Java

CERTIFICATION :

hackerrank : <https://www.hackerrank.com/arbad sugriv>

- Problem Solving (Basics)
- Problem Solving (Intermediate)
- Python (Basics)

PROJECTS AND ASSIGNMENTS :

- Design own memory allocation function like malloc() in 'C' language
<https://github.com/SugrivArbad/myMalloc-function-in-C>
 - created my malloc() function which behaves like a malloc() function in C
 - I have also created yfree() function which frees up memory allocated by ymalloc() function. It behaves like a free() function in C.
- UI design using Javascript, JQuery, HTML/CSS for displaying, maintaining, storing data of students.
<https://github.com/SugrivArbad/UI-design-for-students-data>
 - created simple UI design using 4 buttons considering UX
 - storing data in JSON format using single variable
 - manipulation on students data
- Sending messages from server to multiple client.
<https://github.com/SugrivArbad/message-passing>
 - one program run as a server and other program run as a client
 - pass your file from server to client
- Simple Calculator using ElectronJS framework
<https://github.com/SugrivArbad/simple-caculator-using-ElectronJS>
 - Created simple calculator using ElecttronJS framework
 - used HTML and CSS done on onclick() event.

INTERNSHIP :

Genus IT Solution

01/11/2020 - 31/03/2021

<https://www.genusitsolution.com/>

Technology used :

PHP, MySQL

Project : Ecommerce Shop

QUALIFICATION :

Education	Institution	Grade	Year
M.C.A.	SPPU(Comp.Sci.Dept.)	Second Class	2018-2021
B.C.S.	SPPU	Distinction	2015-2018
12th	MSBSHSE	First Class	2014-2015
10th	MSBSHSE	Distinction	2012-2013

INTERESTS and ADDITIONAL SKILLS :

- Management member and anchor for youth program(Prerana festival)
- Tutor for kids, like to solve Basic Maths Problems, Diary writing, Reading Spiritual Books
- *Cooking, Swimming, Dancing, Playing Mridanga*