Amazon Interview Experience for SDE-1 (Off-Campus)

Difficulty Level :\nHard

Last Updated :\n29 Apr, 2022

Online Screening round(Jan 2022): There was an online coding assessment in which you had two solve 2 coding questions in 70 min followed by behavioral pattern questions separately. Both coding questions were medium level and I was able to solve almost both of them. After one week of this round, I got a selection mail from their recruitment team for the next rounds. All the interviews were conducted on the Amazon Chime platform.

Interview Round 1(Feb 2022): The interviewer(SDE-2) started with a quick introduction about myself and then asked me to explain one of my projects, followed by some questions on that project. After the project discussion, we moved to the coding questions. I was asked to explain the best approach, write code for it and tell about space and time complexity.

- https://www.geeksforgeeks.org/sort-array-converting-elements-squares/
- https://www.geeksforgeeks.org/delete-leaf-nodes-value-x/

I was able to solve both questions in the given time and got good feedback from the interviewer. I got a call for the next round of interviews after one week.

Interview Round 2(Feb 2022): In this round, the interviewer(SDE-2) started with my introduction first then proceeded with one of the major projects and some discussion. After that, he started with coding questions with the same approach as followed in round-1.

- https://www.geeksforgeeks.org/rat-in-a-maze-backtracking-2/
- https://www.geeksforgeeks.org/lowest-common-ancestor-binary-tree-set-1/

I solved both questions with the best approach in very good time. The interviewer was impressed with my performance, so I got called for around 3 interviews.

Interview Round 3(Apr 2022)- BAR Raiser: This round was taken by the Product Manager. He started with a brief introduction and then jumped to coding questions. The same approach was followed for this round as well.

- https://www.geeksforgeeks.org/reverse-level-order-traversal/
- https://www.geeksforgeeks.org/median-of-stream-of-integers-running-integers/

I did both questions and then he proceeded to behavioral questions.

- Tell about a time, when you were able to complete the given task within a strict deadline.
- Tell about a time, when you overachieved results than what you had expected and what was the
 result.

Verdict: After a couple of days, HR called me to say you are selected and I accepted the offer letter.

Tips:

- Practice standard coding questions, medium level from GFG and LeetCode.
- Get well versed with skills, projects, and work experience mentioned in your resume.
- Answer behavioral questions with the STAR approach and prepare these beforehand.\xc2\xa0
- Amazon off-campus process sometimes takes more time as in my case, but it won\xe2\x80\x99t

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Amazon Interview Experience

Last Updated :\n28 Apr, 2022

Round 1: It was an online assessment. I don\xe2\x80\x99t remember the questions exactly but they were medium array questions.

Round 2(Technical Interview): Two coding questions were asked-

- https://www.geeksforgeeks.org/next-smaller-element/
- Given a file, a string, and an integer x. Let\xe2\x80\x99s say the string is at position y. Then you have to print all the strings from the (y-x) position to the (y+x) position. The string can appear more than once in the file. Give a space-efficient approach for this. I was able to explain my approach. The interviewer was quite satisfied with the approach

Round 3(Technical Interview):

- Return whether the number can be divided into any instances of 6, 9, and 20 or as a sum of all or some instances of all or any two.\xc2\xa0
- Find minimum element in O(1) time in the stack. Implement stack using linked list.

Round 4(Bar raiser):\xc2\xa0

• Firstly some managerial questions were asked and then one low-level design question was asked. The low-level design question was about the flight system.

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Amazon Interview Experience for SDE (Dublin) Feb 2022

Difficulty Level :\nHard

Last Updated :\n27 Apr, 2022

Pattern: Given in September 2021(don\xe2\x80\x99t lose hope. I got to interview 5 months after OA). 2 LC medium, behavioral questions, SDE simulation. 3 1-hour interviews(on the same day. 2 interviews without break and 30 mins break before the 3rd interview) Each interview followed the same pattern:

- 30 mins \xe2\x80\x93 behavioral/LP questions
- 30 mins \xe2\x80\x93 code

Interview 1: 30 mins, \xc2\xa0behavioral/LP questions(about teamwork, how you helped a friend). Followed by the following question:

- given: int[] timestamps and double[] values. For each timestamp, we have values given and we
 want to aggregate(sum) those values to a resolution of 1 minute. Timestamps are given at a
 resolution of a second. (hashmap). In the above question, he wanted to give the resolution as a
 parameter and not hardcode it to 1 minute, and also instead of just aggregating he wanted me
 to calculate its average. (hashmap<Integer, double[]> where double[] holds sum on 1st index
 and freq on 2nd and at the end, we would do double[0]/double[1] to get avg.)
- can\xe2\x80\x99t remember but was an easy level only

Interview 2: Behavioral/LP questions(about customer satisfaction, tell me a time when you went out of your way to\xe2\x80\xa6, a time when you did something without asking your manager).

system design. The question was we would be given some conditions and based on those
conditions we had to filter out the files on a file system. (me being the stupid me and with no
knowledge of system design I told them that you can have statements in a particular format and
we can take arg as String[] instructions and then filter files but he said that was the unexpected
solution(by that he meant unexpectedly stupid). In the end, he told me to make an interface for
each filter we wanted to apply).

Interview 3: Behavioral/LP questions(about diving deep). Then he asked following questions:\xc2\xa0

- isSameTree(Node a, Node b) -> self explanatory I guess
- find the missing number. (arr from 1\xe2\x80\xa6N)
- find a complete 3-node binary tree inside a larger tree

Discussed space and time complexity for all.

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Amazon Interview Experience for SDE-1 (On-Campus)

Difficulty Level :\nHard

Last Updated :\n18 Apr, 2022

Online round: This round consisted of 7 easy debugging questions, 2 coding questions, a lot of behavioral questions, and mathematical aptitude questions. The coding questions for Amazon Online Assessment are almost always repeated. I don\xe2\x80\x99t remember the 2 questions I was given exactly but you might find similar questions here

https://algo.monster/problems/amazon_online_assessment_questions. Try to do both of them and answer behavioral questions seriously.

Technical Interview 1: The interviewer started with her introduction and then asked me to give my introduction. Then she directly jumped to coding questions.

- https://www.geeksforgeeks.org/merge-k-sorted-arrays/\xc2\xa0
- https://www.geeksforgeeks.org/reduce-the-array-such-that-each-element-appears-at-most-2-times/xc2xa0

For the first question, I was able to come up with a solution but that wasn\xe2\x80\x99t having the best time and space complexity. Upon being given a hint by the interviewer, I solved it with the best space and time complexity. I was able to solve the second question with the best time and space complexity in one go.

Technical Interview 2: Started the same as round 1, then jumped to coding.

- https://www.geeksforgeeks.org/minimum-time-required-so-that-all-oranges-become-rotten/
- https://www.geeksforgeeks.org/given-sorted-array-number-x-find-pair-array-whose-sum-closest-x/

Need to solve both the questions with the best time and space complexity. I was able to do the first one easily but for the second one I started with the two-pointer approach after sorting but he was trying to confuse me I guess so he said this might not work. Since I was not sure as well, so I gave him another approach of binary search for every number. He asked me to code the second approach. He was very helpful while I tried to dry run the second approach. The round lasted for about 1 hour 20mins. In the end, I was asked a behavioral question.\xc2\xa0

Tell me about a time when you innovated/invented something?

Bar raiser round: Jumped straight to the coding part.

• \xc2\xa0\https://www.geeksforgeeks.org/print-all-combinations-of-balanced-parentheses/

I was able to do the above in the first 15 minutes so then he jumped to SQL. A SQL query based on join and count. Discussion on all the scheduling algorithms. What algorithms I would use for something like Cowin. Modified the questions to accommodate FCFS and priority-based scheduling in the Cowin app. Finally was asked a behavioral question. Tell me about a time you took a risk.? Then we discussed the extra-curricular mentioned in my resume.\xc2\xa0

In all the rounds I was given the option to ask any questions at the end of the round, so have some questions prepared. Overall the process took more than 2 months. I\xe2\x80\x99m not from CS/IT and my CPI is also not that great. I was not allowed to sit for a few companies because of my CPI but I did have faith in my skills.\xc2\xa0

Verdict: Selected

Tips:

- DSA is important but a lot of questions are very common and are repeated. Refer to this for a starting point https://www.geeksforgeeks.org/amazon-interview-questions/
- I was not prepared for the theory part in the last round so prepare for those too.
- Work on communicating with your interviewer.
- Be thorough with everything you have mentioned in your resume.
- Believe in the process when you are working hard, things will work out eventually.

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Amazon Interview Experience for SDE-1

Difficulty Level :\nMedium
Last Updated :\n24 Mar, 2022

Online Round: There were two coding questions with time complexity analysis.

- 1. Similar to nearest K coordinates from Origin. (Heap)
- 2. https://www.geeksforgeeks.org/minimum-distance-to-the-corner-of-a-grid-from-source/

In the end there were behavioral MCQs. After 3 days I got an email, which it mentioned that I had cleared the online assessment and will be having a quick connect with HR for further instructions.\xc2\xa0

Technical Interview 1: This interview was taken by a SDE2. I was asked one easy question:

There is an Olympic stadium which was filled by \xe2\x80\x98n\xe2\x80\x99 spectators of
different nationalities who came in the stadium in a particular order. Find the 1st spectator to
come in the stadium who was the only one from his nationality.

I gave the interviewer a solution of O(n) time complexity in few minutes. But interviewer wanted me to explore different data structures and tell him \xc2\xa0if possible, why and how can we use various DS in this problem and its time complexity and if not possible why not. He also asked me about the implementation of ordered and unordered maps and where to use what.\xc2\xa0

Then he asked me few questions on Amazon Leadership Principles:

- Tell me about a time you got a feedback and how did you react to it.
- Tell me about a time you had to dive really deep to handle a crucial situation.

Technical Interview 2: This interview was taken by a SDM and it revolved around CS fundamentals. The interviewer asked me about the subjects I was comfortable with. I said OS/DBMS/OOP/DSA. He started with questions on OS related to scheduling algorithms, processes and threads, multithreading, deadlocks, caching. He asked whether I have implemented cache, I told him I have implemented LRU cache, he asked just the brief of the DS I used. Then asked questions on DBMS related to ACID properties, Normalization and its forms. Then he went with few questions on OOP related to polymorphism, virtual functions, inheritance. In the end he asked few questions on Amazon Leadership Principles:

Technical Interview 3: This interview was taken by a SDE2. I was asked the following questions:

- 1. \xc2\xa0\https://leetcode.com/problems/jump-game/
- 2. \xc2\xa0https://leetcode.com/problems/jump-game-ii/
- 3. \xc2\xa0\https://www.geeksforgeeks.org/connect-n-ropes-minimum-cost/
- 4. \xc2\xa0\https://www.geeksforgeeks.org/find-repeating-element-sorted-array-size-n/ with time complexity O(logn)

This interview continued for 1.5 hours.\xc2\xa0

Technical Interview 4: This interview was taken by a SDM. The interviewer started by asking some situational questions around the leadership principles. He went really deep into the situations I mentioned. He focused on the minute details. Then he asked me about my projects, followed by a question on DSA.

• https://www.geeksforgeeks.org/subtract-1-from-a-number-represented-as-linked-list/

At the end he asked if I had any questions.

Verdict: After a week, I received a mail from the recruiter saying **you are selected**.

Tips:\xc2\xa0

- Practice coding questions from GFG and Leetcode.
- Have knowledge of projects and work experience you have mentioned in your resume.
- Practice behavioral questions, don\xe2\x80\x99t take them lightly.
- Try to catch the hints the interviewer is giving.

All the best!!

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All the best!!

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Amazon Interview Experience for SDE-1(Off-Campus)

Last Updated :\n21 Mar, 2022

Online round(Oct 2021): There were 4 questions, 2 coding questions along with their algorithm with space and time complexity. Both coding questions were on the easier side. After 1 week of this round, I got a mail from their recruitment team and I have cleared this round.

Round 1(Nov 2021): The interviewer started with a quick introduction and then asked me to explain one of my projects and asked some questions on that project. Then we moved to the coding question.\xc2\xa0

- https://leetcode.com/problems/longest-valid-parentheses/
- https://www.geeksforgeeks.org/find-the-row-with-maximum-number-1s/

\xc2\xa0He first asked me to explain the approach and then write the code. I did both questions then he asked me the space and time complexities. In the end, he asked if I have any questions for him.

Round 2(Nov 2021): In this round too the interviewer started with introductions then she asked me some behavioral questions like \xe2\x80\x9cwhat do you do when you disagree with someone? \xe2\x80\x9d. Then she asked me about hash functions and some oops concepts. Finally, she asked me if I want to ask something.

Round 3(Jan 2022): This round was taken by SDM. He directly jumped to coding questions. He only asked me one question.

https://leetcode.com/problems/step-by-step-directions-from-a-binary-tree-node-to-another/

he asked me to explain the approach and then space and time complexity. I did the question but was told the wrong time complexity.

Round 4(March 2022): This round was also taken by SDM. \xc2\xa0He quickly jumped on my work experience and asked what are difficulties you have faced in your present job, then he asked why I want to join Amazon. Then he moved on to the coding questions.

https://leetcode.com/problems/partition-to-k-equal-sum-subsets/

He first told me to explain the approach, when I explained my approach then he told me to code. I could not do the question but my approach was somewhat similar to what was even in the GFG solution. Then like other interviewers, he asked me if I have any questions for him.

Verdict: After 3 days they called me to say **you are selected**.

Tips:

- Practice coding questions from GFG and Leetcode.
- Have knowledge of projects and work experience you have mentioned in your resume.
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- Believe in yourself.

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Last Updated :\n21 Mar, 2022

Online round(Oct 2021): There were 4 questions, 2 coding questions along with their algorithm with space and time complexity. Both coding questions were on the easier side. After 1 week of this round, I got a mail from their recruitment team and I have cleared this round.

Round 1(Nov 2021): The interviewer started with a quick introduction and then asked me to explain one of my projects and asked some questions on that project. Then we moved to the coding question.\xc2\xa0

- https://leetcode.com/problems/longest-valid-parentheses/
- https://www.geeksforgeeks.org/find-the-row-with-maximum-number-1s/

\xc2\xa0He first asked me to explain the approach and then write the code. I did both questions then he asked me the space and time complexities. In the end, he asked if I have any questions for him.

Round 2(Nov 2021): In this round too the interviewer started with introductions then she asked me some behavioral questions like \xe2\x80\x9cwhat do you do when you disagree with someone? \xe2\x80\x9d. Then she asked me about hash functions and some oops concepts. Finally, she asked me if I want to ask something.

Round 3(Jan 2022): This round was taken by SDM. He directly jumped to coding questions. He only asked me one question.

https://leetcode.com/problems/step-by-step-directions-from-a-binary-tree-node-to-another/

he asked me to explain the approach and then space and time complexity. I did the question but was told the wrong time complexity.

Round 4(March 2022): This round was also taken by SDM. \xc2\xa0He quickly jumped on my work experience and asked what are difficulties you have faced in your present job, then he asked why I want to join Amazon. Then he moved on to the coding questions.

https://leetcode.com/problems/partition-to-k-equal-sum-subsets/

He first told me to explain the approach, when I explained my approach then he told me to code. I could not do the question but my approach was somewhat similar to what was even in the GFG solution. Then like other interviewers, he asked me if I have any questions for him.

Verdict: After 3 days they called me to say **you are selected**.

Tips:

- Practice coding questions from GFG and Leetcode.
- Have knowledge of projects and work experience you have mentioned in your resume.
- Practice behavioral questions, don\xe2\x80\x99t take them lightly.
- Believe in yourself.

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Amazon Interview Experience for SDE1 (8 Months Experienced) 2022

Last Updated :\n15 Mar, 2022

Online Round (Sept 2021): Two coding questions, both were Easy-Medium Level (Don\xe2\x80\x99t remember the questions). I had to write the coding approach also along with the code. After this round, I got a call from a recruiter in January 2022, mentioning that I had cleared the Online Test earlier and will they will be moving forward with my candidature. All the interview rounds were taken virtually on Amazon Chime.

1st Interview Round (Feb 2022): The interview was taken by an SDE-II. The interview started with a quick introduction and then moved to coding questions. I was asked two coding questions, both were standard. One was Easy level and the other was Medium level.

https://www.geeksforgeeks.org/a-boolean-matrix-question/

I was asked to optimize the space complexity after I initially explained my approach.

https://www.geeksforgeeks.org/connect-nodes-at-same-level/

I had to give a solution that used O(1) extra space. I was expected to write fully functioning code for both the questions after I explained my approach.

2nd Interview Round (Feb 2022): The interview was taken by an SDE-II. The interview started with my introduction, projects I have worked on, previous experience, etc. After I told them about my projects, I was asked extensively about Relational Databases, APIs, How to maintain consistency over multiple databases, etc. This went on for around 20-25 mins. After this, I was asked one coding question and was expected to write Production Quality code.

https://www.geeksforgeeks.org/longest-palindrome-substring-set-1

I was expected to write complete working code with all edge cases covered. After writing the code, I had to dry run through my code with input given by them. Both the interviews were taken on the same day and after 3-4 days, I got another mail with a schedule for the next rounds.

3rd Interview (March 2022): This interview was taken by an SDM who was part of the team they were hiring for. The interviewer was very friendly and gave an introduction about herself and the product on which the team was working. I was asked many behavioral questions which were based on Leadership Principles:

- A task that you recently did that you are proud of
- Any new thing that you learned recently
- How do you avoid distractions and maintain productivity, etc?

NOTE \xe2\x80\x93 The interview mail had a few of their Leadership Principles mentioned under Competencies and the interview was based on those only.

4th Interview (March 2022): This was a Bar Raiser Round taken by an SDE-II. The interview started with a quick introduction. Two coding questions were asked. One was a Medium level standard question, another one was a hard question.

https://www.geeksforgeeks.org/queue-using-stacks/

- After I told the time complexity of my approach, the interviewer asked to optimize the code so that the amortized time complexity can be reduced.
- I was asked to write a complete working code which was thoroughly done by the interviewer.
- https://www.geeksforgeeks.org/find-m-th-smallest-value-in-k-sorted-arrays/
 - After I gave an initial approach based on merging arrays, I was asked the complexity and the interviewer told me if I can optimize the time complexity.
 - Gave a lot of hints after which I was able to figure out the heap-based solution.
 - I was asked to write the code which was checked thoroughly by the interviewer.
- Two behavioral questions were asked after this which were based on Leadership Principles only.
 - Here again, there were some Leadership Principles mentioned in the mail, and the behavioral questions were based on those only.

Verdict: After a week, I got the call from the recruiter telling me that I was **selected** \xf0\x9f\x99\x82

Preparation Tips:

- Prepare for all Amazon standard questions as coding questions are mostly based on that.
- Keep speaking whatever you are thinking when trying to solve a coding question. The interviewers are helpful and will tell you if you are thinking in the right direction or not.
- Do consider all edge cases and special cases when writing code for a solution as they check for that.
- They expect Production Quality code, so use meaningful variable and function names and avoid using names like a, b, x, y, DP, etc.

All the best!!

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Amazon Interview Experience for SDE1 (8 Months Experienced) 2022

Last Updated :\n15 Mar, 2022

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All the best!!

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Amazon Interview Experience for SDE-1 (Bangalore)

Last Updated :\n15 Mar, 2022

Round 1(Online assessment): Consisted of 2 coding questions along with a code explanation for each. In code explanation, you need to explain your approach and the time and space complexity. I do not exactly remember the coding questions asked, but one was leetcode easy, and the other was leetcode medium.

Round 2(Technical round 1): The interviewer asked me to introduce myself. Then gave the following coding questions.

- Variation of prerequisite tasks.
- A simple array-based question that used 2 pointer approach.

Round 3(Technical Round 2): The interviewer asked me to introduce myself. Then gave the following coding questions.

- Variation of this question: \xc2\xa0\https://www.geeksforgeeks.org/partition-a-set-into-two-subsets-such-that-the-difference-of-subset-sums-is-minimum/
- Rotten oranges.

Round 4(Bar raiser): The interviewer asked me to introduce myself. Then he asked some questions from my resume.

- \xc2\xa0Tell me about the project mentioned in your resume.
- \xc2\xa0Variation of stock buy and sell. Took more than 30 mins to understand and do this. The interviewer was not clear with his requirements. \xc2\xa0Finally did this with recursion.

Round 5(Managerial round): The interviewer was very nice. He interacted with me very well. Asked several behavioral questions. Some were,

- Tell about a time when you did something challenging.
- Tell about a time when you did something innovative.

Tips: Keep practicing daily Practice from GFG and leetcode, that should be enough. Do not take behavioral questions lightly and practice them during the end days before your interview. Make 5-6 stories at least.

Verdict: **Selected**My Personal Notes\narrow_drop_up

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Amazon Interview Experience for SDE-1 (Bangalore)

Last Updated :\n15 Mar, 2022

Round 1(Online assessment): Consisted of 2 coding questions along with a code explanation for each. In code explanation, you need to explain your approach and the time and space complexity. I do not exactly remember the coding questions asked, but one was leetcode easy, and the other was leetcode medium.

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Round 3(Technical Round 2): The interviewer asked me to introduce myself. Then gave the following coding questions.

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Tips: Keep practicing daily Practice from GFG and leetcode, that should be enough. Do not take behavioral questions lightly and practice them during the end days before your interview. Make 5-6 stories at least.

Verdict: **Selected**My Personal Notes\narrow_drop_up

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Amazon Interview Experience for System Development Engineer (Exp \xe2\x80\x93 6 months)

Last Updated :\n09 Mar, 2022

Round 1 (Phone Screening): It was a screening round to gauge my resume and also check if I was worth the further interview process for the role. The interviewer started with a basic introduction followed by some questions on the projects mentioned on my resume. Post that, I was asked a few coding questions mentioned below:

- 1. https://practice.geeksforgeeks.org/problems/boundary-traversal-of-binary-tree/1
- 2. https://practice.geeksforgeeks.org/problems/add-1-to-a-number-represented-as-linked-list/1\xc2\xa0

It was followed by a trouble-shooting question: What will you do if your website is unable to fetch the data from your SQL database?

Round 2 (Tech Round 1): This was the first Technical Round and after a quick exchange of introduction, the interviewer straight away dived into some coding questions:

- 1. https://leetcode.com/problems/best-time-to-buy-and-sell-stock-ii/ (further modifications were made and was asked how different my approach would be)
- 2. https://www.geeksforgeeks.org/search-an-element-in-a-sorted-and-pivoted-array/

Then I was asked some questions on OOP and DBMS concepts. One question which stood out in the interview was to compare how similar/different would the structure of a class be when compared with an entity from the ER Model.

This round ended with a behavioral question based on ownership & customer obsession:

Mention a time when you went above and beyond what was required of you at work?

Round 3 (Hiring Manager): The interviewer started with a quick introduction and asked numerous things about all the technologies and projects that were mentioned on my resume. Then we started with the coding questions:

- 1. Sort alphabets in such a way that all the alphabets which are more than 1 in number in the given array appear first with their frequency of alphabets to follow and all those alphabets that are single appear at the end in the same order of their appearance. eg: {b, f, a, c, g, a, f, b, b, d} > {b, b, f, f, a, a, c, q, d}
- 2. Find any subsequence from an array whose sum is zero (The array contains both positive & negative numbers)

Then it was time for some behavioral questions:

- 1. Tell me about the coolest thing that you have done so far.
- 2. Tell me about a time you had to do some work under a strict timeline and did not have the time to consider all the options.
- 3. Tell me about a time when you had a difficult problem to solve.

Round 4 (Tech Round 2): This was the second technical round and after a brief introduction the interviewer directly stepped into some coding questions:

- 1. A modified version of https://www.geeksforgeeks.org/check-balanced-parentheses-expression-o1-space/
- 2. https://leetcode.com/problems/two-sum/

This was followed by a troubleshooting question: What would you do if the webpage that you are currently on blacks out? This was more of something like a discussion with each of the answers I say leading to a new question.

This was followed by a behavioral question:

1. Tell me about a time when you had to do a lot of research to get your work done.

Round 5 (Bar Raiser): A bar raiser is typically your make or breaks as per Amazon. The interviewer here will have a veto at the time of debrief whether to not select you. The bar raiser generally is on various Amazon LP and will also check on your weak topics from your earlier rounds. My interview majorly comprised of some behavioral questions and a healthy discussion about my resume.

- 1. Mention a time when you had to react guickly in your work. What was the outcome?
- 2. Mention when you had to dive deep into something to get your work done. I had answered based on a college experience of mine & then the interviewer asked me to think of something that I had done during my work experience as well.
- 3. Talk about a time when you had taken a challenging project. What was the challenge and how did you overcome it.

After 2 days I got an email from my recruiter telling me that I had qualified the interviews.

Some tips:

- 1. Be honest with your interviewer and do not mention anything that you do not know on your resume.
- 2. Prepare some real-life scenarios for every Amazon LP that is there. It will always help you to make note of all the scenarios from your work experience and build a story out of it.
- 3. Make it a point to clarify the question once asked and also state all your assumptions well in advance.

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Amazon Web Services \xe2\x80\x93 Introduction to Amazon EKS

Last Updated :\n11 Mar, 2022

Amazon Elastic Kubernetes Service(ECS), is a fully managed service that you can use to run Kubernetes on Amazon Web Service. *Kubernetes* is open-source software that enables you to install and manage applications at a high scale.\xc2\xa0



Its characteristics are:

- Availability: In order to ensure high availability Kubernetes executes and scales itself to various AWS AZs.
- Strength: Kubernetes automatically scales itself to avoid loads and unwanted control plane issues.
- Scalability: It also works with various AWS services to provide security in applications.
 - Amazon ECR for container images
 - Elastic Load Balancing for load classification.

AWS Fargate: It is a serverless compute engine for containers. It works with *Amazon EKS* \xc2\xa0or *Amazon ECS*.

Amazon EKS Sections :

Amazon EKS organization contains the following sections: clusters, nodes, and networking.

- 1. Clusters \xe2\x80\x93 Clusters are consists of the control plane and EKS nodes.
- 2. **EKS nodes** \xe2\x80\x93 Kubernetes nodes run with EC2 in your organization\xe2\x80\x99s account of amazon web service. Each cluster is defined by a unique certificate to schedule portable storage using three ways:
 - Self-Managed Nodes
 - Managed Node Groups
 - Amazon Fargate
- 3. **Amazon EKS Networking**-EKS operates in a Virtual Private Cloud (VPC) so that it can activate all resources to an existing subnet in a network.

Advantages of AWS EKS:

Following are the advantages of using Amazon EKS:

- 1. EKS automates load distribution and parallel processing better than any DevOps engineer could.
- 2. EKS uses VPC networking (explained above).
- 3. Supports EC2 spot examples using managed node groups that follow best practices.
- 4. Your Kubernetes assets integrate smoothly with AWS services if you use EKS.
- 5. EKS allows you to run tools easily.

Amazon EKS Control Plane Architecture:\xc2\xa0

Each cluster runs only one Kubernetes control plane. The control plane mainly consists of two API servers and three \xe2\x80\x98etcd\xe2\x80\x98(The etcd is used for storing Kubernetes data). It manages the scalability of load to have high performance. It identifies the unwanted part of the control plane and can remove it. The control plane can\xe2\x80\x99t be accessed by any other AWS accounts or clusters except for the authorized user.

Working of Amazon EKS:\xc2\xa0

- Firstly, create an Amazon EKS cluster in the console.
- Now launch the EKS nodes and placed all the workloads on AWS Fargate.
- After your cluster is ready, the user can easily communicate by using different types of tools.
- Users can now manage the workloads over Kubernetes.

Pricing of EKS:\xc2\xa0

The user can pay for both long-term service and short-term service. Long-term is a little bit cheaper than the other one because it set a commitment from 1-3 years.

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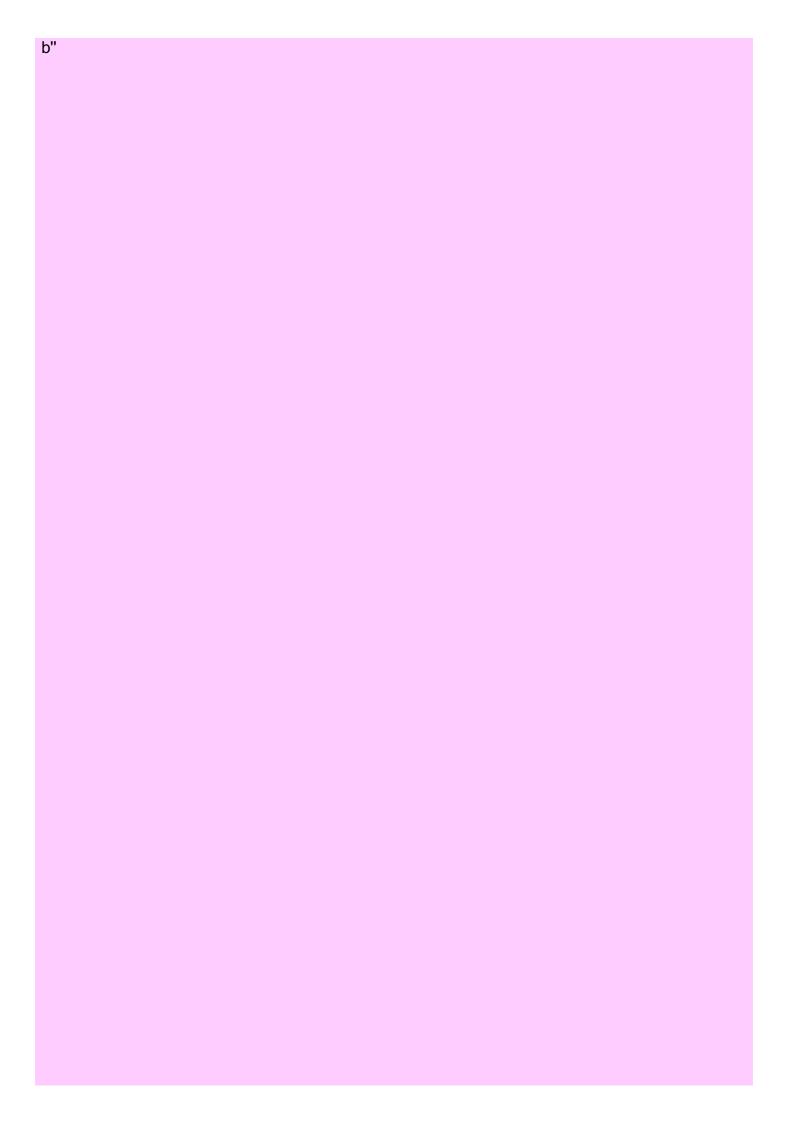
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Amazon Interview Experience (Off-Campus) 2022

Difficulty Level :\nMedium
Last Updated :\n28 Feb, 2022

There is four round of interviews.

Round 1 (Online Assessment Test): The online test consists of 2 coding questions to be completed in 70 minutes. The questions are of medium difficulty level and I was able to solve both of them in under 40 minutes.

One of them was a variant of this question https://www.geeksforgeeks.org/find-maximum-minimum-sum-subarray-size-k/

Round 2 (Technical Interview): My interviewer asked me to introduce myself and then jumped into coding questions :

• Question 1: Check if the given BST is a sum tree

I gave him an optimized solution and discussed its time complexity.

• Question 2: You will start at a point (X, Y) on a grid of dimensions (M, N). Return the no. of ways in which you can cross the border of the grid in exactly k steps.

I initially gave a brute force solution. Later I was able to optimize my code. My interviewer was very friendly he helped me here and there if they were any errors in my code. Overall I was able to solve both the questions in under 50 minutes. Later we had a casual discussion on projects and work culture at Amazon for a few minutes.

Round 3 (Technical Interview): He gave an introduction about himself and asked me to do the same. Later he asked me a coding question:

• Question 1: Find the maximum sum subtree which is also a BST in a binary tree. \xc2\xa0

I solved the question and explained my approach and the time complexity of my solution to him. He then showed me multiple code snippets and asked me to calculate time complexities for each of them. He asked to calculate the time complexity of the <u>Sieve of the Eratosthenes</u> algorithm.

Round 4 (Final Round/Bar Raiser): We had a discussion on my previous projects for around 30 minutes. He then asked me a few behavioral questions:

- Tell me about a time when you have exceeded expectations.
- Tell me about a time when you have delivered late? If yes what was the reason for the delay?
- Why do you want to leave your current company?
- Why Amazon?

He then asked me to write production-quality code for the following questionhttps://www.geeksforgeeks.org/sort-the-strings-according-to-its-frequency/

Final Result: Selected.

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Amazon Interview Experience (Off-Campus) 2022

Difficulty Level :\nMedium
Last Updated :\n28 Feb, 2022

There is four round of interviews.

Round 1 (Online Assessment Test): The online test consists of 2 coding questions to be completed in 70 minutes. The questions are of medium difficulty level and I was able to solve both of them in under 40 minutes.

One of them was a variant of this question https://www.geeksforgeeks.org/find-maximum-minimum-sum-subarray-size-k/

Round 2 (Technical Interview): My interviewer asked me to introduce myself and then jumped into coding questions:

Question 1: Check if the given BST is a sum tree

I gave him an optimized solution and discussed its time complexity.

• Question 2: You will start at a point (X, Y) on a grid of dimensions (M, N). Return the no. of ways in which you can cross the border of the grid in exactly k steps.

I initially gave a brute force solution. Later I was able to optimize my code. My interviewer was very friendly he helped me here and there if they were any errors in my code. Overall I was able to solve both the questions in under 50 minutes. Later we had a casual discussion on projects and work culture at Amazon for a few minutes.

Round 3 (Technical Interview): He gave an introduction about himself and asked me to do the same. Later he asked me a coding question:

• Question 1: Find the maximum sum subtree which is also a BST in a binary tree. \xc2\xa0

I solved the question and explained my approach and the time complexity of my solution to him. He then showed me multiple code snippets and asked me to calculate time complexities for each of them. He asked to calculate the time complexity of the <u>Sieve of the Eratosthenes</u> algorithm.

Round 4 (Final Round/Bar Raiser): We had a discussion on my previous projects for around 30 minutes. He then asked me a few behavioral questions:

- Tell me about a time when you have exceeded expectations.
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- Why Amazon?

He then asked me to write production-quality code for the following questionhttps://www.geeksforgeeks.org/sort-the-strings-according-to-its-frequency/

Final Result: Selected.

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Amazon Interview Experience for SDE-1 (Off-Campus)

Difficulty Level :\nEasy

Last Updated :\n23 Feb, 2022

I applied for 6 months internship at Amazon in October. I gave Open Access(OA) in November, and in December I got a mail from Amazon that they are considering me for FTE and my interview processes will happen between Jan to April.

Online Assessment: Typical amazon OA with five sections.

Two simple coding questions were asked. Didn\xe2\x80\x99t exactly remember the questions but one was easy and one was of medium difficulty. Both were greedy problems.

Round 1: Two coding questions

- 1. To find the path between two nodes in a binary tree.
- 2. To find the number of turns that are required in the above path if we start from one node to another.

I was able to write an optimized code for 1st. For 2nd part, he only discussed the approach as I already took some time in the first part. He seemed satisfied with my approach.

Round 2: Two coding questions along with some behavioral questions. \xc2\xa0 \xc2\xa0 \xc2\xa0

- 1. Min k elements of an array variant. Along with it, he asked what if there is a large chunk of data being passed and at the same time, we want to print the min elements. He said how will you handle that case. He said to think outside DSA. I said it is can be done through semaphore by which either we can print data or find min k elements.
- 2. Minimum platform required for a station if we are given arrival and departure time.

I was able to solve the first question optimally.

In the second question, I gave him optimal code but he asked for spaced optimized approach in which time complexity can be compromised. I somehow managed to give a solution that was not the same which I later found on GFG but I think my approach was correct and he was satisfied. \xc2\xa0

\xc2\xa0**Round 3:** Two coding questions along with a discussion on projects.

- 1. https://takeuforward.org/data-structure/implement-queue-using-stack/
- 2. https://www.geeksforgeeks.org/search-an-element-in-a-sorted-and-pivoted-array/\xc2\xa0

I was not aware of the amortized method of implementing queue. I gave a typical solution which always took linear time. But after some hints from him, I was able to come up with an optimal solution in the first go. I was scared that I required a lot of hints to solve this question but I think he was impressed by the way I approached the question and formed the logic there only unlike already knowing the optimal solution.\xc2\xa0

I gave the optimal solution for the second question with some errors here and there which was pointed out by him. \xc2\xa0 \xc2\xa0

Verdict: Selected!!

Tips:

- As you can see none of my interview rounds were perfect. So don\xe2\x80\x99t lose your composure and try to build a connection with the interviewer.
- Think out loud so that he/she may help if you are stuck.
- Practice standard DSA and keep revising them.

All the best!!

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Amazon Interview Experience for SDE-1 (Off-Campus)

Difficulty Level :\nEasy

Last Updated :\n23 Feb, 2022

I applied for 6 months internship at Amazon in October. I gave Open Access(OA) in November, and in December I got a mail from Amazon that they are considering me for FTE and my interview processes will happen between Jan to April.

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Tips:

- As you can see none of my interview rounds were perfect. So don\xe2\x80\x99t lose your composure and try to build a connection with the interviewer.
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All the best!!

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Amazon Interview Experience for SDE-1 (Off-Campus)

Difficulty Level :\nEasy

• Last Updated :\n07 Mar, 2022

I got a mail from an Amazon recruiter for the SDE-1 role. I applied through the Career Site.

Online Assessment round: 2 coding questions were asked. (don\xe2\x80\x99t remember exactly), I have got an MD editor and also to explain my approach to questions and time complexities. You need to solve both questions to get a call for an interview.

Round -1 (Coding round): Around 3 weeks later, I received a call from the recruiter that I have 2 interview rounds in the next week on the same day. This round was taken by a senior SDE-2. We introduced ourselves and then he directly jumped into coding questions.

- 1. Move zeros to last (https://www.geeksforgeeks.org/move-zeroes-end-array/)
- 2. Remove k consecutive chars (https://www.geeksforgeeks.org/reduce-the-string-by-removing-k-consecutive-identical-characters/)

We first discussed the approaches to solve the problems and then when I reached the optimized solution to the problem. He asked me to write the code and discussed the space and time complexities.

Round \xe2\x80\x93 2 (Coding round): After one hour on the same day, I had the next round of interviews. It was taken by two senior SDE-1. They asked me to introduce myself.

- 1. I didn\xe2\x80\x99t exactly remember the question but it was an application-based modified DFS of graph problem.
- 2. Count ways to reach nth stairs. (https://www.geeksforgeeks.org/count-ways-reach-nth-stair/)

I have explained both the question in 45 minutes. They asked me if I have any questions for them. I have asked them to tell me their experience.

After around a week later, I received a call that I have the next round of interviews on the next day.

Round \xe2\x80\x93 3 (Bar-raiser round): This round is taken by a senior manager. We faced a lot of bandwidth issues from his side.

- 1. He asked me about my recent projects. The approach, the challenges I faced, and their solutions.
- 2. He asked me some behavioral questions too like Tell me about a time you made a blunder (Technical and personal both).
- 3. He also asked me what are questions asked in my previous rounds. and then gave me this problem.
- 4. Reverse zig-zag tree traversal. (https://www.geeksforgeeks.org/zigzag-tree-traversal/)

This round didn\xe2\x80\x99t go so well. I was nervous about the next round. The gap between this round and the next round was 15 minutes but this round lasted 10 minutes longer. So, I got only 5 minutes between both rounds.

Round \xe2\x80\x93 4 (Bar-raiser round): This round was also taken by a senior manager having about twelve years of experience. We started with the Introduction.

1. This was similar to the questions asked in the previous round. He asked me about my recent

projects. The approach, the challenges I faced, and their solutions. This time he went in-depth.

- 2. Also some HR questions, Why do you want to leave your current company?
- 3. Why Amazon?
- 4. Maximum sum path (https://www.geeksforgeeks.org/find-maximum-path-sum-in-a-binary-tree/)

A week later I received a call that I got selected.\xc2\xa0

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Amazon Interview Experience for SDE-1 (Off-Campus)

Difficulty Level :\nEasy

• Last Updated :\n07 Mar, 2022

I got a mail from an Amazon recruiter for the SDE-1 role. I applied through the Career Site.

Online Assessment round: 2 coding questions were asked. (don\xe2\x80\x99t remember exactly), I have got an MD editor and also to explain my approach to questions and time complexities. You need to solve both questions to get a call for an interview.

Round -1 (Coding round): Around 3 weeks later, I received a call from the recruiter that I have 2 interview rounds in the next week on the same day. This round was taken by a senior SDE-2. We introduced ourselves and then he directly jumped into coding questions.

- 1. Move zeros to last (https://www.geeksforgeeks.org/move-zeroes-end-array/)
- 2. Remove k consecutive chars (https://www.geeksforgeeks.org/reduce-the-string-by-removing-k-consecutive-identical-characters/)

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- 3. He also asked me what are questions asked in my previous rounds. and then gave me this problem.
- 4. Reverse zig-zag tree traversal. (https://www.geeksforgeeks.org/zigzag-tree-traversal/)

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- 3. Why Amazon?
- 4. Maximum sum path (https://www.geeksforgeeks.org/find-maximum-path-sum-in-a-binary-tree/)

A week later I received a call that I got selected.\xc2\xa0

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Amazon Interview Experience for SDE-2

Last Updated :\n21 Feb, 2022

All the interview rounds happened virtually through Chime.

Round 1 (Online Assessment):

Two coding questions (medium level) were given along with behavioral questions and project simulation questions. In project simulation questions, you will be given a project scenario and you will be asked to select the right decision (architectural and design) for the scenario.

Round 2 (Face 2 Face [virtual] Problem Solving/Data Structures):

This round is a coding round but the interviewer is more interested in my current project and asked questions in depth about the project and its design and then asked me to do design a Document transmission service.

- Question 1
 - I was asked to implement a Document Transmission service where the clients can upload
 one or more documents of any size and based on the client\xe2\x80\x99s requirements the
 service needs to transmit the document to a designated channel (mail, WhatsApp,
 etc\xe2\x80\xa6) at the designated time.
 - Asked high-level design for the service
 - APIs for the service
 - Asked the details for the APIs
 - Contract for client level configurations for each transmission channel
 - Scheduler configurations
 - Asynchronous and Synchronous \xc2\xa0implementation of the service
 - Reguest and Response payloads at all the stages
- Question 2
 - Asked leadership questions related to Customer Obsession and Ownership

Round 3 (Face 2 Face [virtual] Design round):

This round is a design round with the hiring manager. The round started with questions on the project and the design of the current project

- Question 1
 - Asked leadership questions related to Ownership and Customer obsession.
- Question 2
 - I was asked to implement a News Aggregator (Google News)
 - The News Aggregator should be able to fetch and receive news from public and private sources
 - It should be able to crawl feed from RSS \xc2\xa0feed of different sites
 - It should have minimum latency and show the latest news to the user
 - System design for the same

Round 4 (Face 2 Face [virtual] Problem Solving/Data Structures):

This round is a coding round.

Question 1

- Asked leadership questions related to Customer obsession and Bias for action
- Question 2
 - Given a directory with log files and max storage limit for the directory, insert new log files into the directory. If the limit is already exceeded, remove the log file with the maximum size and insert the news file
 - Gave max heap based approach and the interviewer is satisfied with the approach and asked to write the solution
- Question 3
 - There are many chickens on a farm where each chicken can be a child AND/OR parent of another chicken. If a chicken is infected with the virus, how many units of time does it take for all the chickens to be infected with the virus. A chicken can infect virus to its immediate parents and children in one unit of time
 - Gave BFS based solution.
 - Traverse through the graph and count one unit of time for each generation

Round 5 (Face 2 Face [virtual] Problem Solving/Data Structures):

This round is a coding round\xc2\xa0

- Question 1
 - Asked leadership questions related to Insist on higher standards
- Question 2
 - Asked a question similar to the chickens\xe2\x80\x99 problem from the previous round, told it was asked in previous rounds so changed the question
- Question 2
 - You are given a list of employer and employee relations. Return a map of each employer and all the employees reporting to him
 - Gave DFS based solution and the interviewer is ok with it

Round 6 (Bar raiser):

- Question 1
 - Asked leadership questions related to Insist on higher standards.
- Question 2
 - Longest Consecutive Subsequence in O(N)

Verdict: Selected\xc2\xa0

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Amazon Interview Experience for SDE-2

Last Updated :\n21 Feb, 2022

All the interview rounds happened virtually through Chime.

Round 1 (Online Assessment):

Two coding questions (medium level) were given along with behavioral questions and project simulation questions. In project simulation questions, you will be given a project scenario and you will be asked to select the right decision (architectural and design) for the scenario.

Round 2 (Face 2 Face [virtual] Problem Solving/Data Structures):

This round is a coding round but the interviewer is more interested in my current project and asked questions in depth about the project and its design and then asked me to do design a Document transmission service.

- Question 1
 - I was asked to implement a Document Transmission service where the clients can upload
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 - Asked high-level design for the service
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 - Reguest and Response payloads at all the stages
- Question 2
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This round is a design round with the hiring manager. The round started with questions on the project and the design of the current project

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 - I was asked to implement a News Aggregator (Google News)
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 - It should have minimum latency and show the latest news to the user
 - System design for the same

Round 4 (Face 2 Face [virtual] Problem Solving/Data Structures):

This round is a coding round.

Question 1

- Asked leadership questions related to Customer obsession and Bias for action
- Question 2
 - Given a directory with log files and max storage limit for the directory, insert new log files into the directory. If the limit is already exceeded, remove the log file with the maximum size and insert the news file
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- Question 3
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 - Gave BFS based solution.
 - Traverse through the graph and count one unit of time for each generation

Round 5 (Face 2 Face [virtual] Problem Solving/Data Structures):

This round is a coding round\xc2\xa0

- Question 1
 - Asked leadership questions related to Insist on higher standards
- Question 2
 - Asked a question similar to the chickens\xe2\x80\x99 problem from the previous round, told it was asked in previous rounds so changed the question
- Question 2
 - You are given a list of employer and employee relations. Return a map of each employer and all the employees reporting to him
 - Gave DFS based solution and the interviewer is ok with it

Round 6 (Bar raiser):

- Question 1
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- Question 2
 - Longest Consecutive Subsequence in O(N)

Verdict: Selected\xc2\xa0

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Amazon Interview Experience for SDE-1 (Off Campus)

Difficulty Level :\nMedium
Last Updated :\n15 Feb, 2022

I was contacted by Amazon recruiter for SDE-1 role.

Coding round: 2 simple coding questions were asked . (don\xe2\x80\x99t remember exactly), you need to solve both questions to get a call for interview.

Round 1 (Coding Round): This round was taken by senior SDE-2. She ask me to give introduction about my-self and then directly jumped into coding questions.

- 1. Find the diameter of binary tree (https://www.geeksforgeeks.org/diameter-of-a-binary-tree/)
- 2. Find the number of islands (https://www.geeksforgeeks.org/find-number-of-islands/)

I was asked to write production-level code for both of questions.

I was able to solve both of questions within 30 mins. After that she asked questions from my resume and at the end she gave me one more coding question and i was asked to just describe approach.

• (https://www.geeksforgeeks.org/the-celebrity-problem/).

I was able to solve in o(n^2) but it was not optimised.\xc2\xa0

Round -2(Hiring Manager Round): This Round started with introduction.

Question asked:

- 1. Meaning of my name(keyur)
- 2. Projects are done in previous organisation\xc2\xa0
- 3. Why you want to leave current Company
- 4. Why Amazon?
- 5. Have you resolved any production-level bugs? If yes, what was it and how you approached
- 6. Write Database guery to find customer who has ordered in both Sep and Oct.
- 7. In the end, he gave me one coding question to solve\xc2\xa0(https://codereview.stackexchange.com/questions/181606/determine-if-simple-arithmetic-expression-is-valid)

Round 3 (Coding Round):

- 1. Minimum platform required (https://www.geeksforgeeks.org/minimum-number-platforms-required-railwaybus-station/)
- 2. Similar to Kth smallest number(https://www.geeksforgeeks.org/kth-smallestlargest-element-unsorted-array/)

I was able to solve both the questions. In the end, he asked me behavioral questions. Was there any task that you were not able to complete within the time duration? If yes. What was your mistake and what did you learn from that?

Round 4 (Bar Raiser Round): For the first 30 mins, It was mainly around discussion around my projects. After that, he asked me to design a flight booking portal.

1. What are Apis that you will define

2. What database you will use.

After a week, Got a call from the recruiter that I was selected.

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Amazon Interview Experience for SDE-1 (Off Campus)

Difficulty Level :\nMedium
Last Updated :\n15 Feb, 2022

I was contacted by Amazon recruiter for SDE-1 role.

Coding round: 2 simple coding questions were asked . (don\xe2\x80\x99t remember exactly), you need to solve both questions to get a call for interview.

Round 1 (Coding Round): This round was taken by senior SDE-2. She ask me to give introduction about my-self and then directly jumped into coding questions.

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Amazon Interview Experience (On-Campus)

Difficulty Level :\nMedium
Last Updated :\n10 Mar, 2022

ONLINE ASSESSMENT \xe2\x80\x93 This Round consists of 4 sections and you need to perform well in all of these.

A) DEBUGGING (20 mins) \xe2\x80\x93 You will be given around 7 debugging questions which will be extremely simple. You only have to correct the code to pass all test cases.

B) CODING (70 mins) \xe2\x80\x93 Questions asked were

- 1. Based on Sorting (Can\xe2\x80\x99t find problem link)
- 2. https://www.geeksforgeeks.org/count-number-of-substrings-with-exactly-k-distinct-characters/
- C) WORK STYLE ASSESSMENT (20 mins) \xe2\x80\x93 There will be a lot of behavioral questions you will have to answer it by moving a slider to the left/right to indicate how well it describes you. You need to answer these questions with care as well as they are equally important for amazon.
- <u>D) APTITUDE & REASONING (35 mins and 24 ques) \xe2\x80\x93</u> There is enough time and no negative marking, so solve all the questions.

INTERVIEWS \xe2\x80\x93

ROUND 1 \xe2\x80\x93 Started with introduction and then we started off with dsa problems

- 1. https://www.geeksforgeeks.org/find-height-of-a-special-binary-tree-whose-leaf-nodes-are-connected/
- 2. https://leetcode.com/problems/maximum-number-of-weeks-for-which-you-can-work/

The first one was straightforward. For the second, the interviewer gave me hints, i was initially thinking in wrong direction but he helped me to get back on the track and i ended up finding the solution and also coded the same.

ROUND 2 \xe2\x80\x93 Started with introduction and then we discussed about one of my projects (around 4-5 mins only), and then we moved to dsa questions

- 1. https://www.geeksforgeeks.org/find-a-tour-that-visits-all-stations/
- 2. https://www.geeksforgeeks.org/connect-nodes-at-same-level/

Both the questions were standard questions, for the first question, i first started with an $O(n^2)$ approach, then we went to O(n) with extra space and at last i was told to optimize the space as well, so i did it and also coded the space-optimized version. For the second one, i discussed only one approach and was asked to code it.

ROUND 3 \xe2\x80\x93 Started with introduction, followed by project discussion in-depth, a lot of behavioral type question based on my project and also i was asked to show a working demo of features that i have implemented, after that we were left with 30 \xe2\x80\x93 35 mins, so only one dsa question was asked.

1. Iru-cache

I was asked to write the production level code in one go, so i started with my implementation using the concept of classes and was explaining each and every line in detail, after completing the implementation, were some follow up questions about making this code more modular, and then i was asked to find out and rectify the bugs in my code if any, i was only asked to discuss about the rectifications that i can do.

Note: \xc2\xa0\xo0 of questions were asked from theory subject like OS, OOPS, DBMS, CN but it totally depends on the interviewer, and you can be asked anything, so don\xe2\x80\x99t ignore these subjects as well.

TIPS \xe2\x80\x93

- 1. Ask clarifying questions a lot, and always discuss your approach first, don\xe2\x80\x99t jump directly to the coding part.
- 2. Assume that you can be asked anything from your resume in detail.
- 3. Thoroughly go through amazon leadership principles as most of the behavioral questions were asked from that only or i can say is you will be judged on these principles in every round.

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Amazon Interview Experience (On-Campus)

Difficulty Level :\nMedium
Last Updated :\n10 Mar, 2022

ONLINE ASSESSMENT \xe2\x80\x93 This Round consists of 4 sections and you need to perform well in all of these.

A) DEBUGGING (20 mins) \xe2\x80\x93 You will be given around 7 debugging questions which will be extremely simple. You only have to correct the code to pass all test cases.

B) CODING (70 mins) \xe2\x80\x93 Questions asked were

- 1. Based on Sorting (Can\xe2\x80\x99t find problem link)
- 2. https://www.geeksforgeeks.org/count-number-of-substrings-with-exactly-k-distinct-characters/
- C) WORK STYLE ASSESSMENT (20 mins) \xe2\x80\x93 There will be a lot of behavioral questions you will have to answer it by moving a slider to the left/right to indicate how well it describes you. You need to answer these questions with care as well as they are equally important for amazon.
- <u>D) APTITUDE & REASONING (35 mins and 24 ques) \xe2\x80\x93</u> There is enough time and no negative marking, so solve all the questions.

INTERVIEWS \xe2\x80\x93

ROUND 1 \xe2\x80\x93 Started with introduction and then we started off with dsa problems

- 1. https://www.geeksforgeeks.org/find-height-of-a-special-binary-tree-whose-leaf-nodes-are-connected/
- 2. https://leetcode.com/problems/maximum-number-of-weeks-for-which-you-can-work/

The first one was straightforward. For the second, the interviewer gave me hints, i was initially thinking in wrong direction but he helped me to get back on the track and i ended up finding the solution and also coded the same.

ROUND 2 \xe2\x80\x93 Started with introduction and then we discussed about one of my projects (around 4-5 mins only), and then we moved to dsa questions

- 1. https://www.geeksforgeeks.org/find-a-tour-that-visits-all-stations/
- 2. https://www.geeksforgeeks.org/connect-nodes-at-same-level/

Both the questions were standard questions, for the first question, i first started with an $O(n^2)$ approach, then we went to O(n) with extra space and at last i was told to optimize the space as well, so i did it and also coded the space-optimized version. For the second one, i discussed only one approach and was asked to code it.

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Amazon Interview Experience for SDE-1 (Off-Campus)

Difficulty Level :\nHard

Last Updated :\n03 Feb, 2022

Status: 2021 graduate

Work: SDE1

Applied through amazon job portal.

Round 1(Online Coding Test): 2 questions, 120 minutes

- Explanation with Time complexity and Space complexity
- Array Manipulation question (Not remembered actually)
- Rotting oranges (LC: medium)

Round 2(Technical Interview): No discussion on projects direct coding question were given

1. You are riding a bus, suppose in the East direction (bus direction will not change). Given the capacity of bus \xe2\x80\x98c\xe2\x80\x99 and an array such that [numberOfPassengers, PickUpLocation, DropLocation]. Check if you can drop all the passengers at their destinations. Return true or false

eg:

```
a. Bus capacity, c=4\rn[[3,1,5],[2,2,6]] \rightarrow Return false
```

Explanation: Bus capacity is 4. You pick 3 passengers at location 1, then your bus capacity will be 4-3=1. Now at location 2, two more passengers are waiting but your capacity is 1 so you can\xe2\x80\x99t pick 2 passengers. Hence, dropping all passengers at their destinations is not possible.

```
b. Bus capacity, c=11\rn[[3,2,7],[3,7,9],[8,3,9]] \rightarrow Return true
```

Explanation:

Capacity:11

At location 2: Passengers = 3, Capacity = 11-3=8 (They will be drop at location 7)

At location 3: Passengers = 8, Capacity = 8-8 = 0 (They will be drop at location 9)

At location 7: 3 people will be dropped, Capacity = 0+3=3,

Passengers=3, New capacity = 3-3=0 (They will be drop at location 9)

At location 9: All 11 passengers will be dropped (8+3).

Hence, you pick all passengers and drop them all. Return true.

2. Given an array, count pairs such that (arr[i]+arr[j])%60==0

```
eq. [30,20,150,100,40]\r\nOutput: 3
```

```
Explaination: (30+150) = 180 \% 60 == 0, Count=1 (20+100) = 120 \% 60 == 0, Count =2 (20+40) = 60 \% 60 == 0, Count =3
```

Round 3(Technical Interview):

- Discussion on project
- Similar question with some twist: The twist is inseated of sum I need to return maximum product (tree also contains negative nodes {Keep in mind: Product of two negative nodes can give maximum positive product) https://www.geeksforgeeks.org/maximum-sum-nodes-binary-tree-no-two-adjacent/
- Reverse nodes in K-groups, LC: Hard

Round 4:

- 1. Basic introduction
- 2. Project discussion
- 3. Operating system question on \xe2\x80\x93 Internal and external fragmentation, best fit, next fit, worst fit, first fit, paging, virtual memory, different page replacement algorithms.
- 4. DBMS- Discussion on Normalisation and its type (1NF, 2NF, 3NF, BCNF)

Round 5:

- Introduction
- Discussion on projects

2 coding questions:

- 1. Print all pair of elements with minimum absolute difference in the array. Something like this \xe2\x80\x93 https://www.geeksforgeeks.org/sum-minimum-absolute-difference-array-element/#:~:text=For an element x present,abs is the absolute value.&text=Sort the array of size n.
- 2. Given an array, count pairs such that (arr[i]+arr[j])%60==0

```
eg. [30,20,150,100,40]\r\noutput: 3

Explaination:
(30+150) = 180 % 60 == 0 Count=1
```

(30+150) = 180 % 60 == 0 , Count=1 (20+100) = 120 % 60 == 0 , Count =2 (20+40) = 60 % 60 == 0, Count =3

(Same question as asked in round 2)

I was not able to solve one coding question in 3rd round. Was expecting a positive result because the last 2 rounds were awesome \xe2\x80\xa6. but luck was not with me \xf0\x9f\x99\x82

Upvote if you like :))

My Personal Notes\narrow_drop_up

Add your personal notes her



Amazon Interview Experience for SDE-1 (Off-Campus)

Difficulty Level :\nHard

Last Updated :\n03 Feb, 2022

Status: 2021 graduate

Work: SDE1

Applied through amazon job portal.

Round 1(Online Coding Test): 2 questions, 120 minutes

- Explanation with Time complexity and Space complexity
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Upvote if you like :))

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Add your personal notes her



Amazon Interview Experience 1.5 years Experienced

Difficulty Level :\nHard

Last Updated :\n07 Feb, 2022

I was contacted by an amazon recruiter for the SDE-1 role.

Coding Round: Two questions were asked to be solved in 105 minutes in which we have to write time complexity and algorithm as well.

1. Given a string which has only \xe2\x80\x98(\xe2\x80\x98, \xe2\x80\x98)\xe2\x80\x99, \xe2\x80\x98[\xe2\x80\x98, \xe2\x80\x98], \xe2\x80\x99, and \xe2\x80\x98?\xe2\x80\x99, Determine numbers of ways by which string can be split into two substrings such that characters in both substrings can form a balanced string. You can replace the question mark with any other 4 characters.

```
Input - "[(??][??["\nOutput - 2
```

2. Given an array that has the amount of rainfall for ith day and an integer k, return indexes(start from 1) of days which are ideal for camping. A day is said to be ideal if the rainfall is in decreasing order prior to considered day and then in increasing order following k days from considered day.

```
Input - day = [3,2,2,2,3,4], k = 2 \setminus 0
```

I got a call after a week to schedule the first 3 rounds. All 3 rounds happened on the same day.

Round 1(Technical):

- 1. https://www.geeksforgeeks.org/find-a-triplet-in-an-array-whose-sum-is-closest-to-a-given-number/
- 2. https://www.geeksforgeeks.org/shortest-path-in-a-binary-maze/
- 3. Tell me about time when you dive deeper into understanding a technology that solves a great customer problem and How your solution was better than the previously implemented solution.

Round 2(Technical and Managerial):

- 1. https://www.geeksforgeeks.org/lru-cache-implementation/
- 2. How to implement threading in C++
- 3. How HTTPS protocol works
- 4. How HTTPS is passed to application via server
- 5. Detailed Project discussion.
- 6. Tell me about a time when you solve a major frequent issue that was causing a lot of trouble to customers by observation.
- 7. Tell me about a time when you have made sacrifices while solving a customer problem
- 8. How indexing and partitioning helps in optimizing DB queries

Round 3(Technical):

- 1. Merge 3 sorted \xc2\xa0arrays with removed duplicates
- 2. https://www.geeksforgeeks.org/merge-k-sorted-arrays/
- 3. https://www.geeksforgeeks.org/subtract-two-numbers-represented-as-linked-lists/
- 4. Any scenario when you have controversy with someone with team or business or customer is unsatisfied.

Round 4(Bar-Raiser):

- 1. Given a grid, with persons standing, some are empty spaces, you need to remove minimum number of people to sure that now two people are adjacent to each other(only horizontal and vertical are adjacent).
- 2. Given a list of heights of building whose width is 1, find max area enclosed by buildings. Ex \xe2\x80\x93 [5,2,4,1,1,1,2] \xe2\x80\x93 ans is 7. https://www.geeksforgeeks.org/largest-rectangle-under-histogram/
- 3. Tell me about a time when You deliever something that is quite challenging for you?
- 4. Tell me about when you took calculated risk?
- 5. Tell me about a time when you work on tough feedbacks from customer and what to do you learn from it?

All the Best

My Personal Notes\narrow_drop_up

Add your personal notes her

Amazon Interview Experience 1.5 years Experienced

Difficulty Level :\nHard

Last Updated :\n07 Feb, 2022

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All the Best

My Personal Notes\narrow_drop_up

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Amazon WOW Internship Interview Experience 2021

Difficulty Level :\nEasy

Last Updated :\n24 Jan, 2022

I applied for a 2-month SDE internship role in amazon through the amazon wow program 2021, This program is an initiative by Amazon to promote women in tech.

Round 1(17th August 2021): It was an online assessment on the Mettl platform that was around 1.5hrs long. The 9 sections of this test were: Hands-on coding, Data Structures, Algorithms, Networking, Software Testing, Software Methodologies, Linux, OOPs, and Operating Systems.

Round 2(25th August 2021): It was an online assessment on the SHL amazon platform.

Note: The paper had sectional timing.

- 1. Debugging section \xe2\x80\x93 we needed to solve 7 debugging guestions in 20 min.
- 2. Coding test \xe2\x80\x93 It has 2 medium-level questions. The difficulty level of questions varies from set to set.
- 3. Worklife assessment \xe2\x80\x93 It has around 25-30 questions related to work ethics and perspective towards life.
- 4. Reasoning ability section \xe2\x80\x93 It has 24 questions that need to be answered in 35 mins (the questions were easy).

Interview: My interview was scheduled for 10th October, 24hrs before that I got the interview link. I was super excited at the same time nervous; the interviewer was very understanding and gave me time to get comfortable.\xc2\xa0

- She started by asking a warmup question find-next-greater-number-set-digits. First, I gave a naive approach to the solution i.e., generate all the permutations of the number and then figure out the one which is just greater than the given number. she asked me to optimize the solution and then I came up with an O(N log N) approach after that he asked me to code it.
- The second question was to check whether a given binary tree is BST or not. I gave a naive approach (second approach in this article).
- Then she asked me to optimize if I can, and I came up with an efficient approach (3rd approach in this article)which required the tree traversal only once she was satisfied and asked me to code, I wrote the code and had a dry run to ascertain its correctness.
- She was satisfied with my approach and way of explanation.
- I was satisfied with my performance and was expecting a positive response, on 20th October I got the selection mail.

Tips \xe2\x80\x93 Be confident, think loud, always dry run your code before you tell the interviewer that you are done and luck plays a vital role so fingers crossed.

My Personal Notes\narrow_drop_up

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Amazon Internship Interview Experience | Off-Campus 2021

Difficulty Level :\nHard

Last Updated :\n24 Jan, 2022

Interview Difficulty Level: Hard

Round 1(Resume Shortlisting): Applied on 9 Oct 2021, got test link around 10 Nov 2021.

Round 2(Online Assessment): There were four sections namely, code debugging, coding, workstyles assessment, and aptitude. The code debugging section consisted of 7 code snippets that were faulty and we had to debug them and find the correct output (20 minutes).

- The coding section consisted of two coding problems and the difficulty was of Leetcode Easy-Medium level (70 minutes).
- https://practice.geeksforgeeks.org/problems/smallest-distant-window3132/1
- And other gues I don\xe2\x80\x99t remember.
- The work styles assessment was based on the leadership principles of Amazon. There was no time limit for this section.
- The last section was based on aptitude and reasoning questions. There were 24 questions and we had 35 minutes to solve them.

Round 3(Technical Interview): The interview started with a brief introduction about myself and what projects and internships I had done. There were three panelists interviewing me. The interviewers directly jumped into coding and I was given three coding questions in phases that I had to solve. The questions were of Leetcode medium-hard difficulty. This round lasted for about 75 min.

- https://www.geeksforgeeks.org/count-number-of-occurrences-or-frequency-in-a-sorted-array/ (Had to solve for the best complexity)
- 2. https://leetcode.com/problems/course-schedule/ (dry run stepwise)
- 3. Third Ques was based on binary search which i didn\xe2\x80\x99t find anywhere.

Round 4(Tech + HR): This round went for about an hour and 20 minutes. The interviewer was friendly and we had a brief discussion about one project that I made using Machine learning. Then he gave 3 coding questions to solve. The questions were based on DP and trees. I had a good time discussing my approach. He seemed satisfied. He also asked follow-up questions based on the primary questions.

- 1. https://www.geeksforgeeks.org/burn-the-binary-tree-starting-from-the-target-node/ (Hard Que took me almost 30 min to solve with best possible complexity)
- 2. https://leetcode.com/problems/interleaving-string/ (1-Dp approach was required for better complexity)
- 3. Since I have spent soo much time on the first two questions interviewers didn\xe2\x80\x99t go further with the third ques. (They asked thought process for on what factors someone should approach a typical DSA problem by either recursion or iteratively.)

HR Ques:

- 1. Why should we hire you? (STAR approach is required)
- 2. Give me your two biggest weaknesses (STAR approach)
- 3. How are you planning on improving your weakness and what have you done till now?
- 4. Any Questions for us (I asked a lot of them)

The Final Results were announced after a long wait of 24 days. I was one among the selects.

Now I would like to highlight some of my preparation tips that helped me crack this interview:

- The very important parameter according to me for selection is your communication skills. It all boils down to the fact of how you express your thought process and ideas. Even if you know a lot of stuff, but aren\xe2\x80\x99t able to communicate dynamically, it may lead to rejection.
- Be very clear about your Projects and Work Experience(If any).
- In case you have Work-Ex, then 3 Projects would be sufficient & in case you don\xe2\x80\x99t have any Work-Ex, 5 Projects would be sufficient.
- Thorough understanding of the fundamentals related to the project Domain(In my case it was ML & Data Science), Tech stack. Focus more on relating the theoretical concepts with real-life examples.
- Don\xe2\x80\x99t miss out on anything you have mentioned on your resume!
- Don\xe2\x80\x99t neglect the Core Subjects(DBMS, OOPS, CN, OS) on the cost of Coding. (Core Subjects plays a very vital role in the clearance of the Technical Rounds).
- For Core Subjects, you can completely rely on GfG and Youtube Videos. Focus more on Important Topics first.
- Focus more on Important DSA rather than Complex & Tough DSA. Once you are confident about Important ones, you can switch to Tough Ones.
- Practice more Easy & Medium Level Questions, rather than focusing only on hard ones.
- Strike a balance between Core Subjects, Projects, Coding. (VERY IMP).
- Make your own notes and revise them multiple times. The only mantra to crack any Interview is doing revision multiple times. (I revised the core subjects minimum of 8-10 times so that I can answer them fluently during interviews.) Having conceptual clarity is more important than the number of topics.
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Amazon Internship Interview Experience | Off-Campus 2021

• Difficulty Level :\nHard

Last Updated :\n24 Jan, 2022

Interview Difficulty Level: Hard

Round 1(Resume Shortlisting): Applied on 9 Oct 2021, got test link around 10 Nov 2021.

Round 2(Online Assessment): There were four sections namely, code debugging, coding, workstyles assessment, and aptitude. The code debugging section consisted of 7 code snippets that were faulty and we had to debug them and find the correct output (20 minutes).

- The coding section consisted of two coding problems and the difficulty was of Leetcode Easy-Medium level (70 minutes).
- https://practice.geeksforgeeks.org/problems/smallest-distant-window3132/1
- And other gues I don\xe2\x80\x99t remember.
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Round 3(Technical Interview): The interview started with a brief introduction about myself and what projects and internships I had done. There were three panelists interviewing me. The interviewers directly jumped into coding and I was given three coding questions in phases that I had to solve. The questions were of Leetcode medium-hard difficulty. This round lasted for about 75 min.

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HR Ques:

- 1. Why should we hire you? (STAR approach is required)
- 2. Give me your two biggest weaknesses (STAR approach)
- 3. How are you planning on improving your weakness and what have you done till now?
- 4. Any Questions for us (I asked a lot of them)

The Final Results were announced after a long wait of 24 days. I was one among the selects.

Now I would like to highlight some of my preparation tips that helped me crack this interview:

- The very important parameter according to me for selection is your communication skills. It all boils down to the fact of how you express your thought process and ideas. Even if you know a lot of stuff, but aren\xe2\x80\x99t able to communicate dynamically, it may lead to rejection.
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Amazon WoW Internship Interview Experience for Data Engineer 2021

Last Updated :\n24 Jan, 2022

Amazon WoW is a networking platform for all women engineering students in India that connects them to Amazon leaders, recruiters, and the broader Amazon community.

Online test was scheduled on august 2021

Round 1(Online test on Mettl Platform): It consists of 1 coding question and 40 MCQs covering topics like DSA, OOPs, DBMS, Linux, Networking, Software Engineering, etc.

- I was able to pass few test cases from the coding questions and answered MCQs.
- After few weeks I got an email that I have been shortlisted for Data Engineer interview.

Round 2(Technical Interview \xe2\x80\x93 50 mins):

- The interview happened in amazon chime platform
- · Tell me about yourself
- Elaborate the projects mentioned in resume
- He gave me three tables and explained their relation. I was asked to write SQL queries to get results from the table. The questions can be easily answered if we are good at joins.
- A python question related to file handling
- · An array question based on merge sort

Round 3 (HR + Technical Interview \xe2\x80\x93 50mins):

- Tell me about yourself
- Had discussions about projects in resume
- Challenges faced during the projects
- How did you overcome the difficulties
- The first 30 mins of interview was mainly focused on behavioral questions
- Then he asked me a SQL questions which can solved by aggregate functions
- Another SQL questions which can be solved by window function

Verdict \xe2\x80\x93 Selected

Be strong in SQL joins and get familiarized in window functions. \xc2\xa0

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Amazon Interview Experience for SDE (Off-Campus)

Difficulty Level :\nHard

Last Updated :\n24 Jan, 2022

I attended a hiring event on *Codechef* for Amazon in March or April \xe2\x80\x9921. I managed to solve nearly 50% of the questions. So, after nearly 6 months, I got a mail that my profile has been shortlisted from Codechef.

After attending the preparation session for 3-4 times, finally they scheduled my interviews. There were 3 rounds scheduled on the same day.

Round 1(70 mins-Taken by SDE): The interview started off with my introduction and I was asked some questions about my role at previous job. After that I was asked 2-3 questions on leadership principles. \xc2\xa0\xe2\x80\x93>20mins\xc2\xa0

After this, the interviewer asked 2 coding questions.

- 1. https://www.geeksforgeeks.org/decode-string-recursively-encoded-count-followed-substring/. I discussed the stack approach with the interviewer and after that I coded the solution.
- 2. https://www.geeksforgeeks.org/check-if-a-binary-tree-is-subtree-of-another-binary-tree/

After suggesting brute force approach for this, I had to take several hints from the interviewer for the optimal solution(by comparing inorder traversals of both trees). But, finally I got it right and the interviewer was satisfied.

Round 2(60 mins \xe2\x80\x93 Taken by Technical Program Manager-II): Again, the interview started off with my introduction and I was asked some questions about my role at previous job. After that I was asked another 2-3 questions on leadership principles. \xc2\xa0\xe2\x80\x93>20mins

After this, the interviewer asked 2 coding questions.

- 1. https://www.geeksforgeeks.org/fix-two-swapped-nodes-of-bst/. I discussed the approach with the interviewer first. It took some time for me to explain this: When there is more than one pair in inorder traversal which does not follow the property, in[i]<in[i], which one to swap and why?
- 2. This one was a very specific question. But, after thinking for a while, I realized it was a basic heap question.

I was able to code both questions within time(40 mins), although I realized I gave the wrong TC for one of the questions.\xc2\xa0

Round 3(60 mins \xe2\x80\x93 Taken by Manager, Software Development): It started with my introduction. After that, it moved to my CV and I was asked to choose a project mentioned in my resume. I was asking various questions about it, but I didn\xe2\x80\x99t go through my project before interview, so I wasn\xe2\x80\x99t able to answer even some of the most basic questions, I was really embarrassed. After that, they said some leadership principles. All of this took 30 mins.

After this, I was asked one coding question

1. https://www.geeksforgeeks.org/largest-sum-contiguous-subarray/. Along with with the sum, I also had to print the elements included in the sum. I tried to do this in single traversal only using Kadane\xe2\x80\x99s. But, the time ran out and I failed to explain the approach properly. I felt terrible after this round and I felt like I botched it.\xc2\xa0

But, I think because my first 2 rounds were good, I got call for the last round.

Round 4(45 mins \xe2\x80\x93 Taken by Manager, Software Development): It started with my introduction and I was asked some basic questions about my role at current company. After that, I was asked one coding question:

1. Given a string containing of digits, print in the below manner:

```
11 -> one 1\r\n21 -> two 1\r\n3233 -> three 2\r\n and three 3\r
```

I discussed the approach and coded the solution.

After this, I was asked 2-3 more questions on leadership principles. Overall, I think this round was pretty chill.

Verdict: Selected

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Amazon Interview Experience for SDE (Off-Campus)

Difficulty Level :\nHard

Last Updated :\n24 Jan, 2022

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Amazon Internship Interview Experience | Off-Campus 2021

Last Updated :\n12 Jan, 2022

Interview Difficulty Level: Hard

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Amazon Interview Experience (On-Campus)

Difficulty Level :\nHard

Last Updated :\n12 Jan, 2022

Amazon visited our campus for FTE recruitment in Aug, 2019.\xc2\xa0

Round\xc2\xa01(Online Screening Round): There were different sets of questions. Each set had two coding questions and mcqs based mostly on c/c++.\xc2\xa0 My coding questions were 1) https://www.geeksforgeeks.org/counting-inversions/ and 2) finding the number of derangements.\xc2\xa0

Round 2(F-2-F): Started straight away with ds algo stuff. First question:\xc2\xa0\https://www.geeksforgeeks.org/k-maximum-sum-combinations-two-arrays/. Second question was based on topological sort of a directed graph. I had to write code for both questions. Attention was given to code quality and edge cases.\xc2\xa0

Round 3(F-2-F): Again, the focus was on ds algo.\xc2\xa0

- At first, was given a stream of transactions and the task was to find the kth most expensive transaction. A few approaches were discussed, and then I had to code up the best approach I could come up with.\xc2\xa0
- The second question was\xc2\xa0\https://www.geeksforgeeks.org/find-number-of-islands/. Had
 to code it up. The third question was a modification on finding the intersection between two
 linked lists. There were other small questions in between, specially pertaining to Priority Queue
 and its implementation.\xc2\xa0
 \xc2\xa0

Round 4(F-2-F): Given a hierarchical structure, where a node calls another node for a service, and that node may call other node(s) for a service, find the longest time taken for two \xe2\x80\x98\leaves\xe2\x80\x99 of this hierarchical structure to communicate with each other. This was just a modified version of finding the longest leaf to leaf path in a tree-like structure.\xc2\xa0

- The second question:\xc2\xa0\https://www.geeksforgeeks.org/nuts-bolts-problem-lock-key-problem/.\xc2\xa0
- 3rd question was finding the largest island in a grid.\xc2\xa0
- There were small other questions as well, like the previous round.\xc2\xa0
- Had to code everything.\xc2\xa0

Round 5(Bar Raiser):\xc2\xa0

- Discussion about CV.
- Why I am sitting for coding profile, being from a non CS/IT background.\xc2\xa0
- Then, was asked to implement LRU Cache. Special notice was taken on the code.\xc2\xa0
- Then, was asked the trapping rain water problem, but do it with O(1) space and single pass.
 Had to code up the solution.\xc2\xa0

\xc2\xa0 \xc2\xa0

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- Had to code everything.\xc2\xa0

Round 5(Bar Raiser):\xc2\xa0

- Discussion about CV.
- Why I am sitting for coding profile, being from a non CS/IT background.\xc2\xa0
- Then, was asked to implement LRU Cache. Special notice was taken on the code.\xc2\xa0
- Then, was asked the trapping rain water problem, but do it with O(1) space and single pass.
 Had to code up the solution.\xc2\xa0

\xc2\xa0 \xc2\xa0

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Amazon Interview Experience for SDE-1 | Off-Campus 2021

Last Updated :\n12 Jan, 2022

Role: SDE1

Source: naukri.com

Online Round: 2 Coding Question with Time Complexity Analysis

1. Similar to nearest K coordinates from Origin. (Heap)

2. Little bit of modification of 2-Sum, but I did in Brute Force way and it passed.

In the Last behavioural based MCQ Test.

After 5 days I got an email in which it mentioned that I will be having a quick connect with HR for Rounds Process.

Round 1:

- Quick Intro
- BST Iterator https://leetcode.com/problems/binary-search-tree-iterator/ (Medium)
- Basic Calculator https://leetcode.com/problems/basic-calculator/ (Hard)
- I Solved both but for last one my code was not 100% complete as we were running out of time but I gave the approach and final Time Complexity.

Round 2:

- Paint House https://www.lintcode.com/problem/515/?_from=
 [\xe2\x80\x98ladder\xe2\x80\x99]&fromId=[\xe2\x80\x9916\xe2\x80\x99] (Premium on Leetcode, so attaching free Resource)
- BFS on Grid, The question was like you are given 2D Matrix with 0,1 and a starting coordinate from that you have to cover all 1\xe2\x80\x99s and tell how much minimum time it will take to do that and if any 1 is left return -1.

Round 3(Behavioural, taken by SDM III):

- This Round was like brief Introduction, and that started with LP Questions
- A Deadline you missed.
- A Goal that you thought you will not be able to achieve but you did.
- A most Challenging Task you did.
- CS Fundamentals Questions, like difference between HTTP vs HTTPS, Thread vs Process, Memory Leak in Java, Classfull IP and its all Classes.
- After about a week I got an email that I am having my Last Round Next Week.

Round 4:

- A Small Introduction
- LP Questions
- 1 Coding Questions (Now for this I want to share that Interviewer itself was in doubt, the question was like you are given a Binary Tree with atmost 2 child and every child can have atmost 2 Parents, and you have to find a Maximum Path Sum from Root to Leaf)
- I asked what is the structure of that Node, So he said what you think. I wrote this:

Java

```
class Node
\xc2\xa0\xc2\xa0
{
\xc2\xa0\xc2\xa0
int data;
\xc2\xa0\xc2\xa0
Node left;
\xc2\xa0\xc2\xa0
Node right
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}
```

So he said Yes this is, (Now I was confused how come this can have links with Parent, maybe I
am not able to get!)

Sample Test Case:

```
\xc2\xa0 \xa0 \xc2\xa0 \xc2\xa0 \xc2\xa0 \xc2\xa0 \xc2\xa0 \xc2\xa0 \xc2\xa
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• So, 1st Solution that I gave was normal dfs based that I try every path from root till every Leaf and in that method I take current_sum and one global_sum and update it accordingly.

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int ans = 0:
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private void dfs (TreeNode root, int csum, List<Integer> ds)
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if(root==null) return;
\xc2\xa0\xc2\xa0
if(root.left==null && root.right==null)
\xc2\xa0\xc2\xa0
\xc2\xa0\xc2\xa0
\xc2\xa0if(csum > ans)
\xc2\xa0\xc2\xa0
\xc2\xa0{
\xc2\xa0\xc2\xa0
\xc2\xa0\xc2\xa0ans = csum;
\xc2\xa0\xc2\xa0
\xc2\xa0\xc2\xa0finalAns = ds;
\xc2\xa0\xc2\xa0
\xc2\xa0
\xc2\xa0\xc2\xa0
\xc2\xa0return;
\xc2\xa0\xc2\xa0
\xc2\xa0\xc2\xa0
ds.add(root.val);
\xc2\xa0\xc2\xa0
dfs(root.left,csum+root.val,ds);
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dfs(root.right,csum+root.val,ds);
\xc2\xa0\xc2\xa0
ds.remove(ds.size()-1)
\xc2\xa0\xc2\xa0
\xc2\xa0\xc2\xa0
pubic List<Integer> solve(TreeNode root)
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this.ans = 0;
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this.dfs(root,0,new ArrayList<Integer>());
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return this.finalAns;
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- Time Complexity: O(more than N) I was not able to figure out but it is I guess O(N²)
- So, he told me to optimise it I told him that I will do something Post Order type Traversal and from left and right I will bring answer. But he told me that this will not work, So I was not able to find something better.

Conclusion: Be Confident in LP Questions, discuss Brute Force first.

Verdict: Rejected

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Amazon Interview Experience for SDE-1

Difficulty Level :\nMedium
Last Updated :\n11 Jan, 2022

Applied through HackerEarth coding challenge for 6 months+ experienced

Round 1(Hackerearth Round \xe2\x80\x93 Coding Challenge): Two questions were asked to solved.

- 1. Based on the priority queue
- 2. Based on the map

I solved both questions within 40 minutes.

After few weeks got a call for scheduling interview rounds.

Round 2 (Technical Interview): Two questions were asked, along with the behavioural questions.

- 1. First question was based on the binary search
- 2. Second was a DP problem with binary tree.

I was able to solved both the problems, some questions were asked from the previous experience.

Round 3(Technical Interview \xe2\x80\x93 Taken by a SDE-2): Two questions were asked, along with the behavioural questions.

- 1. First question was similar to the problem https://www.geeksforgeeks.org/next-greater-element/
- 2. Second question was a DP problem.

The questions were followed by questions from previous experience and behavioural questions.

Round 4(Technical Interview \xe2\x80\x93 Taken by a Senior SDM): Two questions were asked

- 1. First question was OOPs concept based question, I was given with some features which needed to add in the amazon alexa, and asked to implement the generic and maintainable code, using different oops concept.
- 2. Second question was similar to https://www.geeksforgeeks.org/the-celebrity-problem/, They have provided a single array of people and a function knows(a,b) which return true if a knows b otherwise false.

Some more questions from resume, past experiences, college projects and behavioural based \xc2\xa0were asked

Round 5(Bar Raiser Round \xe2\x80\x93 Taken by SDE-2): Two questions along with some resume based and behavioural questions.

- 1. First question was based on LRU based, the question was framed in a way that you first need to understand the question itself, and ask different questions.
- 2. Second question was similar to the problem https://www.geeksforgeeks.org/find-top-k-or-most-frequent-numbers-in-a-stream/.

Tips:\xc2\xa0

- 1. Thoroughly go through amazon leadership principals as most of the behavioural questions were asked from that only.
- 2. Be vocal throughout your interview process, incase if you are going in the wrong direction interviewer might help you.
- 3. Ask questions to clarify the questions that were asked
- 4. Always be prepared to dry run the code you have written as interviewer might not code in same language as you do.

After giving all the rounds, a few days later got informed that i was selected.

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Last Updated :\n11 Jan, 2022

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Amazon WoW Internship Interview Experience 2021

Last Updated :\n09 Jan, 2022

Difficulty Level: \xc2\xa0Medium-Hard

Online Assessment 1:

- Date \xe2\x80\x93 17/08/2021
- Mettl Platform \xc2\xa0 \xc2\xa0 \xc2\xa0 \xc2\xa0 \xc2\xa0
- Time \xe2\x80\x93 90 minutes \xc2\xa0
- 9 Sections \xe2\x80\x93 41 Questions \xc2\xa0 \xc2\xa0 \xc2\xa0 \xc2\xa0
- 1 Coding questions + 40 Objectives \xc2\xa0 \xc2\xa0 \xc2\xa0 \xc2\xa0

MCQ Topics \xc2\xa0(5 Questions Each Section) \xc2\xa0 \xc2\xa0 \xc2\xa0 \xc2\xa0

- 1. Data Structures and Algorithms \xc2\xa0 \xc2\xa0 \xc2\xa0 \xc2\xa0
- 2. Networking \xc2\xa0 \xc2\xa0 \xc2\xa0 \xc2\xa0
- 3. Linux \xc2\xa0 \xc2\xa0 \xc2\xa0 \xc2\xa0
- 4. Pseudocode \xc2\xa0 \xc2\xa0 \xc2\xa0 \xc2\xa0
- 5. SQL Queries \xc2\xa0 \xc2\xa0 \xc2\xa0 \xc2\xa0
- 6. Databases \xc2\xa0 \xc2\xa0 \xc2\xa0 \xc2\xa0
- 7. Software Testing \xc2\xa0 \xc2\xa0 \xc2\xa0 \xc2\xa0
- 8. Software Engineering \xc2\xa0 \xc2\xa0 \xc2\xa0 \xc2\xa0

Online Assessment 2: Date \xe2\x80\x93 25/08/2021

- 4 Sections \xc2\xa0 \xc2\xa0 \xc2\xa0 \xc2\xa0
 - 1. Code Debugging (6 Code Snippets) \xe2\x80\x93 20 minutes \xc2\xa0 \xc2\xa0 \xc2\xa0 \xc2\xa0
- 2. Coding Test (2 Coding Questions) \xe2\x80\x93 70 minutes \xc2\xa0 \xc2\xa0 \xc2\xa0 \xc2\xa0
- 3. Workstyles Assessment \xe2\x80\x93 20 minuntes \xc2\xa0 \xc2\xa0 \xc2\xa0 \xc2\xa0
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Interview Round: Date \xe2\x80\x93 10/10/2021

Started with the Introduction. Without wasting any second, he came to the coding part $\c 2\x 0 \x 2\x 0$

He asked a coding question-\xc2\xa0 \xc2\xa0 \xc2\xa0 \xc2\xa0

1. Given an array of strings. Print first non-repeating string from the stream of strings in the given array.

I gave 3 different approaches \xc2\xa0 \xc2\xa0 \xc2\xa0 \xc2\xa0 \xc2\xa0

Approach 1: Brute Force \xc2\xa0 \xc2\xa0 \xc2\xa0 \xc2\xa0

He asked me to optimize it. \xc2\xa0 \xc2\xa0 \xc2\xa0 \xc2\xa0

Approach 2: I gave the second approach by using a queue and a map. \xc2\xa0 \xc2\xa0 \xc2\xa0 \xc2\xa0

But queue operations needed O(n) time so he asked to optimize it and do it in constant time by using some other linear data structure. $\xc2\xa0 \xc2\xa0 \xc2\xa0$

Approach 3: I didn\xe2\x80\x99t know the solution prior so I kept thinking about it. After discussing and thinking a lot I came up with a solution. \xc2\xa0 \xc2\xa0 \xc2\xa0

I explained my approach by using a doubly-linked list and a map. Then he asked me to code it down. \xc2\xa0 \xc2\xa0 \xc2\xa0

I gave the whole working code. \xc2\xa0 \xc2\xa0

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