

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 to 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.
- Amazon off-campus process sometimes takes more time as in my case, but it won't.

be canceled in between.

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Amazon Interview Experience

- Last Updated : 28 Apr, 2022

Round 1: It was an online assessment. I don't 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's 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.
- Find minimum element in O(1) time in the stack. Implement stack using linked list.

Round 4(Bar raiser):

- 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 : [Hard](#)
- Last Updated : 27 Apr, 2022

Pattern: Given in September 2021 (don't 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 behavioral/LP questions
- 30 mins code

Interview 1: 30 mins, behavioral/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't 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 help a customer, 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:

- isSameTree(Node a, Node b) -> self explanatory I guess
- find the missing number. (arr from 1 to N)
- 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't 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/>
- <https://www.geeksforgeeks.org/reduce-the-array-such-that-each-element-appears-at-most-2-times/>

For the first question, I was able to come up with a solution but that wasn't 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.

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

Bar raiser round: Jumped straight to the coding part.

- <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.

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'm 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.

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 : [Medium](#)
- Last Updated : 24 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.

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 $\times 10^9$ 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 if 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.

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. <https://leetcode.com/problems/jump-game/>
2. <https://leetcode.com/problems/jump-game-ii/>
3. <https://www.geeksforgeeks.org/connect-n-ropes-minimum-cost/>
4. <https://www.geeksforgeeks.org/find-repeating-element-sorted-array-size-n/> with time complexity $O(\log n)$

This interview continued for 1.5 hours.

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 :

- Practice coding questions from GFG and Leetcode.
- Have knowledge of projects and work experience you have mentioned in your resume.
- Practice behavioral questions, don't take them lightly.
- Try to catch the hints the interviewer is giving.

All the best!!

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- Last Updated : 24 Mar, 2022

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

- Last Updated : 21 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.

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

He 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 "what do you do when you disagree with someone?" "d. 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. He 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**.

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Amazon Interview Experience for SDE1 (8 Months Experienced) 2022

- Last Updated : 15 Mar, 2022

Online Round (Sept 2021): Two coding questions, both were Easy-Medium Level (Don't 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 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**

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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 : 15 Mar, 2022

Online Round (Sept 2021): Two coding questions, both were Easy-Medium Level (Don't 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.

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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.

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All the best!!

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Amazon Interview Experience for SDE-1 (Bangalore)

- Last Updated :15 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: <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.

- Tell me about the project mentioned in your resume.
- Variation of stock buy and sell. Took more than 30 mins to understand and do this. The interviewer was not clear with his requirements. Finally 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**

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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**

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Amazon Interview Experience for System Development Engineer (Exp 6 months)

- Last Updated : 09 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>

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, b, f, f, a, a, c, g, 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 quickly 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 Interview Experience for System Development Engineer (Exp \xe2\x80\x93 6 months)

- Last Updated : \n09 Mar, 2022

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

- Last Updated : 11 Mar, 2022

Amazon Elastic Kubernetes Service(EKS), 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.



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* or *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's 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

Each cluster runs only one Kubernetes control plane. The control plane mainly consists of two API servers and three `etcd` (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't be accessed by any other AWS accounts or clusters except for the authorized user.

Working of Amazon EKS

- 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

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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Amazon Interview Experience (Off-Campus) 2022

- Difficulty Level : \n[Medium](#)
- 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.](#)

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 [Sieve of the Eratosthenes](#) 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 question-
<https://www.geeksforgeeks.org/sort-the-strings-according-to-its-frequency/>

Final Result: Selected.

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Amazon Interview Experience (Off-Campus) 2022

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- Last Updated : \n28 Feb, 2022

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Final Result: Selected.

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

- Difficulty Level : \n[Easy](#)
- 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't 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't 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 : \n[Easy](#)
- 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't 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.

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Tips:

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All the best!!

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

- Difficulty Level : \n[Easy](#)
- 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't 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 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't 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 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't 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 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.

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A week later I received a call that I got selected.

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Amazon Interview Experience for SDE-2

- Last Updated : 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's requirements the service needs to transmit the document to a designated channel (mail, WhatsApp, etc) 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 implementation of the service
 - Request 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 feed 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

- Question 1
 - Asked leadership questions related to Insist on higher standards
- Question 2
 - Asked a question similar to the chickens 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

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Amazon Interview Experience for SDE-2

- Last Updated : Feb, 2022

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- Question 2
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- Question 2
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