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Amazon Interview Experience | Set 431 (For SDE2)

- Difficulty Level : \nMedium
- Last Updated : \n12 Jul, 2019

I was interviewed for SDE2 role at Amazon, Bangalore. I had 3 years of experience at the time of getting interviewed.

Round 1 : Coding Test

\xe2\x80\x94 Explain design patterns used so far.
\xe2\x80\x93 How is code review done.
\xe2\x80\x93 How is design review done.
\xe2\x80\x93 [Write a program to search a number in a sorted array having 1 maxima.](#)
\xe2\x80\x93 [Write a program to check parenthesis are matching.](#)

Round 2 : Technical Round

\xe2\x80\x93 What type of cache do you use in your projects/SYstem.
\xe2\x80\x93 [Design a LRU cache](#) having methods
\xe2\x80\x93 get(K Key)
\xe2\x80\x93 put(K key, V Value)
\xe2\x80\x93 remove(K Key)
They wanted a Library such as Redis which takes generic input.(Using generics)

Round 3 : Hiring Manager Round

\xe2\x80\x93 A brief introduction
\xe2\x80\x93 Almost 15 minute discussion about what App Store in Amazon does
\xe2\x80\x93 Explained my project in detail.
\xe2\x80\x93 A very detailed description of technical challenge faced (it includes HLD, LLD and the solution offered)
\xe2\x80\x93 Design google\xe2\x80\x99s Autocomplete feature.
\xe2\x80\x93 Which areas of yours would you like to improve upon? (Both technical and non-technical)
\xe2\x80\x93 [Write a program for finding K largest elements in an array.](#)

Round 4 : Technical Round

\xe2\x80\x93 [In a linked list find Kth elements from end in a single traversal.](#)
\xe2\x80\x93 [Given a 2-D matrix of 0s and 1s, find the number of groups of adjacent 1s given that diagonal 1s are not included.](#)
This was the famous Islands problem using connected components in Graph.

Round 5 : Design Round

\xe2\x80\x93 Design BookMyShow. All the microservices which are involved their APIs and HLL design was expected.
How will you resolved the concurrency issue when 2 customers try to book same seat.

Round 6 : Bar Raiser Round

\xe2\x80\x93 A brief introduction
\xe2\x80\x93 Complete design of my project HLD, LLD, UI, DB etc.
\xe2\x80\x93 Responsibilities in the current company
\xe2\x80\x93 Why do you want to change your company
\xe2\x80\x93 Any task/project which was designed and implemented in less time but had a great impact on the production/Business Side.
\xe2\x80\x93 Have you been appreciated for your task more than your expectations.
\xe2\x80\x93 Time when you did not agree with your manager.
\xe2\x80\x93 have you lead anyone ? how do you review code ?
\xe2\x80\x93 how do you review design?
\xe2\x80\x93 What are you weaknesses ?
\xe2\x80\x93 Any project which you feel proud for?

Overall the process was very smooth and HR was very supportive.
After a few days I got a call saying I was selected \xf0\x9f\x99\x82

My Personal Notes\narrow_drop_up

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