Google Interview Guide (2022)

Interview Process  
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What to expect in a Google interview:  
    
\* Recruiter Pre-screen (20-30 mins) – Non-technical chat about your resume and background. Get ready to answer questions like Why Google? Why are you leaving your current job? What's your biggest achievement?  
  
\* Technical Phone Screens (45-60 mins) – One or two phone screens with your hiring manager or a Google employee. You'll solve a coding question related to data structures and algorithms on a shared Google Doc. Some questions on your background.  
  
\* Onsite Loop (4-5 interviews) – Coding and System Design questions. Expect questions related to slightly harder data structure, algorithms, and system design.  
  
Google evaluates candidates on 4 criteria:  
   
1) Googleyness  
Googleyness means putting the user first, being friendly, approachable, humble, doing something nice for others, being proactive, and keeping your eye on the goal. You'll be gauged for being a team player and having a bias for action.  
  
2) General Cognitive Ability  
Your ability to solve problems and explain your thought process. Expect open-ended questions like how would you optimize this further? The interviewer wants to know how you learn and adapt to a situation.  
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3) Leadership  
Your ability to take on tough problems and step back when it's not needed. They'll gauge if you can mobilize a team to solve a difficult problem. Get ready to answer questions like, how have you demonstrated leadership when you weren't the manager? how have you dealt with trade-offs and ambiguity?  
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4) Role-related knowledge  
Is your technical expertise sufficient to drive impact at Google? How will you grow and scale with the company? Sample questions: Tell me about a recent/interesting project you worked on? How would you design a task scheduling system?  
   
  
Interview Tips  
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\* Data Structures - Practice data structures like Heaps, HashTable, Tree, Stack, Queue, Graph, and Trie.   
\* Algorithm - Practice Dynamic Programming, Quick-Sort, Breadth-first and Depth-first search.  
\* Explain your thought process - Extremely important. Practice describing your design decisions clearly and concisely.  
\* Collaborate – Don't forget to discuss tradeoffs, present multiple solutions, and take hints from the interviewer.  
  
  
Top recent Google tagged Coding Questions on LeetCode  
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Happy Number (easy)  
Minimum Meeting Rooms (medium)  
Number of Islands (medium)  
Merge Intervals (medium)  
Number of Closed Islands (medium)  
Making a Large Island (hard)  
Employee Free Time (hard)  
Alien Dictionary (hard)  
  
    
Top Google System Design Questions  
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Design a Web Crawler  
Design Google Docs  
Design a Messenger  
Design YouTube  
   
  
Ref:  
1) Grokking the Coding Interview: <https://lnkd.in/gkjFsTxa>  
2) Grokking the System Design Interview: <https://lnkd.in/g4Wii9r7>  
3) Google Interview Guide: <https://lnkd.in/gtUN8qnE>