

# **SWE INTERVIEW TIPS (2-4 YoE)**

**My learnings after interviewing at companies like DE Shaw, Google, Uber, Salesforce, Intuit, LinkedIn during 2024-25**

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# Interview Rounds

- Online Assessment
- Screening round
- Onsite rounds
  - DSA
  - LLD
  - HLD
  - Hiring Manager

# DSA

- Types of DSA interviews
  - Online Assessments
  - 1 Hard question to be solved in 45 Mins
  - 1 long story based question with couple of followup questions
  - 2-3 medium questions
- Tips
  - Most effort required to prepare
  - Very luck based
  - Okay to ask how many questions interviewer has in mind
  - Good communication
  - How to make notes (constant revision is needed)
- Resources
  - Common interview questions ([Neetcode 150](#), [Leetcode 150](#))
  - Company Specific questions (Leetcode premium)
  - DP and Graph extra focus ([can refer my notes](#))

# LLD

- Types of LLD interviews
  - Take home assignment (Can be over a weekend or few hours window, expectations are accordingly)
  - Expect running code in a single file
  - Expecting DB Schema diagram, API contracts, Classes, Services
  - Mix between DSA / LLD
- Tips
  - Easiest to prepare, closest to what we do as software engineers
  - Practise a few questions: Implement full project in IDE, Expose APIs, Setup DB, Write Junits, Add as many functions as you can (Will take around 1 day for 1 ques)
  - Trickiest interview in terms of expectations, Ask interviewer what is he expecting (as we cant do everything in 1 hour)
  - Expect to handle concurrency
- Resources
  - <https://github.com/prasadgujar/low-level-design-primer>
  - Youtube channel: [Concept & Coding - by Shrayansh](#)
  - Sample questions to prepare: Book My Show, Parking lot, Chess, Snake and Ladder, Twitter, Cache, Task Scheduler, Elevator, Google Doc, Google Sheets
  - Read about SOLID principles and Design Patterns (Use chat gpt or youtube)
  - Multithreading: [Leetcode Concurrency Problems](#) and [Concept & Coding - by Shrayansh](#)

# HLD

- Types of interviews
  - Discussion about past projects
  - Deep Discussion about a small service in a large system (e.g. Discussing offline/online indicator in Whatsapp, displaying most popular hashtags on twitter)
  - Not so Deep Discussion on a large system (e.g. Design whatsapp or youtube) can go deep into a small piece towards the end.
- Tips
  - Lot depends on the interviewer, how he drives the round. Feel free to clarify expectations
  - Time management very important, better to practise some questions with friends
  - Practise your company projects well
  - Dont try to learn from too many resources
- Resources
  - Book: [Alex Xu System Design Interview \(Volume 1 & 2\)](#)
  - Youtube: [Gaurav Sen](#), [Jordan has no life](#), [Concept && Coding - by Shrayansh, Arpit Bhayani](#)

# Hiring Manager

- What to expect in HM round
  - Discussion about past projects and why you made certain design choices in those projects
  - Behavioural questions (Tell me about a time you had a conflict with your colleague and how you handled it)
  - Hypothetical scenarios (e.g what will you do if you are working on tight deadlines and a new urgent requirement comes)
- Tips:
  - A fixed set of 15-20 questions to prepare and you are done! I have never encountered a question beyond that set
  - STAR method to answer questions
  - Read about company's core values and align your answers to company values
  - Answer in a way that showcases my strengths
  - Answers should be transparent and have ton of integrity
  - Use Chat GPT to refine your answers
- Resources:
  - [My question bank](#)

# Misc

- These things can be asked in any interview round, better be prepared
  - Core language concepts (e.g. garbage collections, implementing tree set of a custom class, Static / final keyword etc)
  - OOP concepts
  - Java generics
  - STL library functions
  - Multithreading
  - SQL queries
  - DBMS concepts (Clustered vs Non Clustered index)
  - Networking protocols
  - Operating System concepts (Deadlocks Semaphores)
- Resources
  - Chat GPT
  - [Concept & Coding - by Shrayansh](#)

# A brief talk about my experiences

- DE Shaw
- Google
- Uber
- Salesforce
- Intuit
- LinkedIn



# How to apply

- Referrals
- Linkedin premium
- Direct apply
- Insta Hyre