

be not afraid of the technical interview

Jeffrey Leung

Amazon Software Developer (October 2021 - Present)

SAP Tech. Project Coordinator Intern (2020)

Samsung Back-end Developer Intern (2017)

SFU Software Systems (2014 - 2021)

TABLE OF CONTENTS

01

ABOUT ME

02

INTRO TO
TECH INTERVIEWS

03

STRUCTURE
YOUR ANSWERS

04

EXAMPLE
PROBLEM

05

PRACTICE
STRATEGICALLY

06

QUESTIONS

01

ABOUT ME



A blurred background image showing a man and a woman in an office setting, likely during an interview. The man is on the left, looking towards the right, and the woman is on the right, seen from the back. A white geometric line shape is overlaid on the top left of the image.

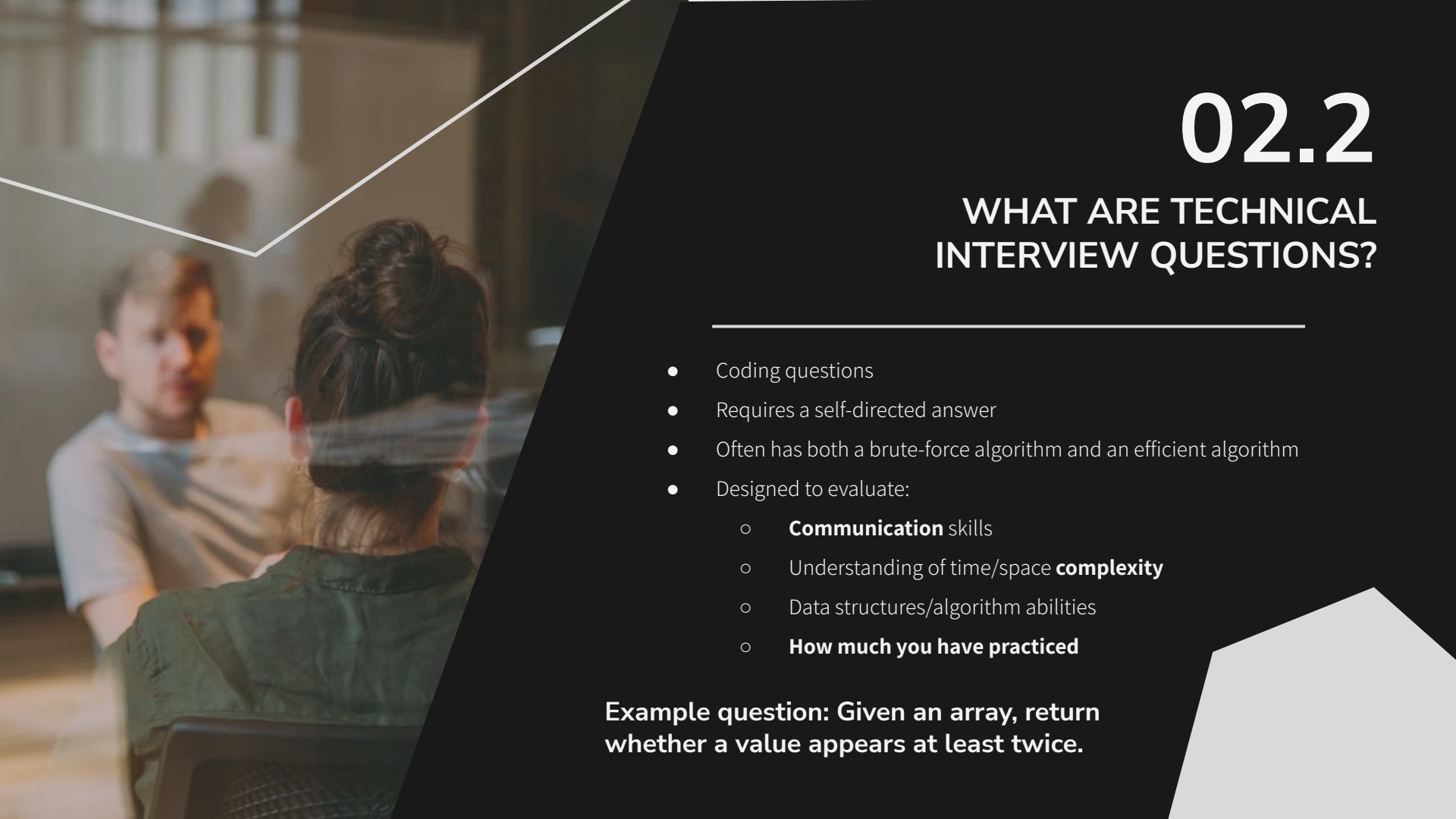
02.1

INTERVIEW STRUCTURE

Behavioural Questions (20 minutes)

Technical Questions (20 minutes)

A white geometric shape, resembling a stylized house or a large triangle, is located in the bottom right corner of the slide.



02.2

WHAT ARE TECHNICAL INTERVIEW QUESTIONS?

- Coding questions
- Requires a self-directed answer
- Often has both a brute-force algorithm and an efficient algorithm
- Designed to evaluate:
 - **Communication** skills
 - Understanding of time/space **complexity**
 - Data structures/algorithm abilities
 - **How much you have practiced**

Example question: Given an array, return whether a value appears at least twice.

A blurred background image showing two people in a meeting. A man is on the left, looking towards the right, and a woman is in the foreground, seen from the back, looking towards the man. The image is partially obscured by a dark diagonal overlay on the right side.

02.3

EXPECTATIONS OF YOU

- Technical knowledge (a little)
- Adapting to technical problems with new constraints
- Ability to solve problems independently & together
- Soft skills:
 - Ability to communicate thought process
 - **A team member and normal human being**



03

STRUCTURE YOUR ANSWER

- 1. Investigate.**
Ask clarifying questions. Define the input/outputs. Suggest constraints. Discuss obvious edge cases.
- 2. Brute-force it.**
Suggest the obvious answer. Solve as if solving manually. Explain and code-comment your solution. Draw whiteboard diagrams if available.
- 3. Calculate Complexity.**
How much **time** does each line take? What's the $O(n)$?
How much **space** is needed?
- 4. Optimize.**
Pinpoint the heaviest operations. Eliminate duplicated effort. Use data structures to speed up saving/retrieval. Write down the new time and space complexity.
- 5. Code.**
Code alongside your comments. Write simple, readable, and maintainable code. Mention edge cases.
- 6. Test and Verify.**
List and check all possible edge cases. Walk through the code with a sample input to verify output.

04

EXAMPLE PROBLEM

- 1. Investigate.**
Ask clarifying questions. Define the input/outputs.
Suggest constraints. Discuss obvious edge cases.
- 2. Brute-force it.**
Suggest the obvious answer. Solve as if solving manually. Explain and code-comment your solution.
Draw whiteboard diagrams if available.
- 3. Calculate Complexity.**
How much **time** does each line take? What's the $O(n)$? How much **space** is needed?
- 4. Optimize.**
Pinpoint the heaviest operations. Eliminate duplicated effort. Use data structures to speed up saving/retrieval. Write down the new time and space complexity.
- 5. Code.**
Code alongside your comments. Write simple, readable, and maintainable code. Mention edge cases.
- 6. Test and Verify.**
List and check all possible edge cases. Walk through the code with a sample input to verify output.

05.1

PRACTICE STRATEGICALLY

Languages: Python, Java, JavaScript, C++

Practice by yourself & with friends

Start with LeetCode **EASY** questions

Struggling with LeetCode?

- Don't read answers until you have been stuck for 10+ minutes
- Read sample answers from the Discussions tab
- Go back to easier questions
- Save questions you could not solve by yourself, and revisit them in future

Try other websites - NeetCode, HackerRank



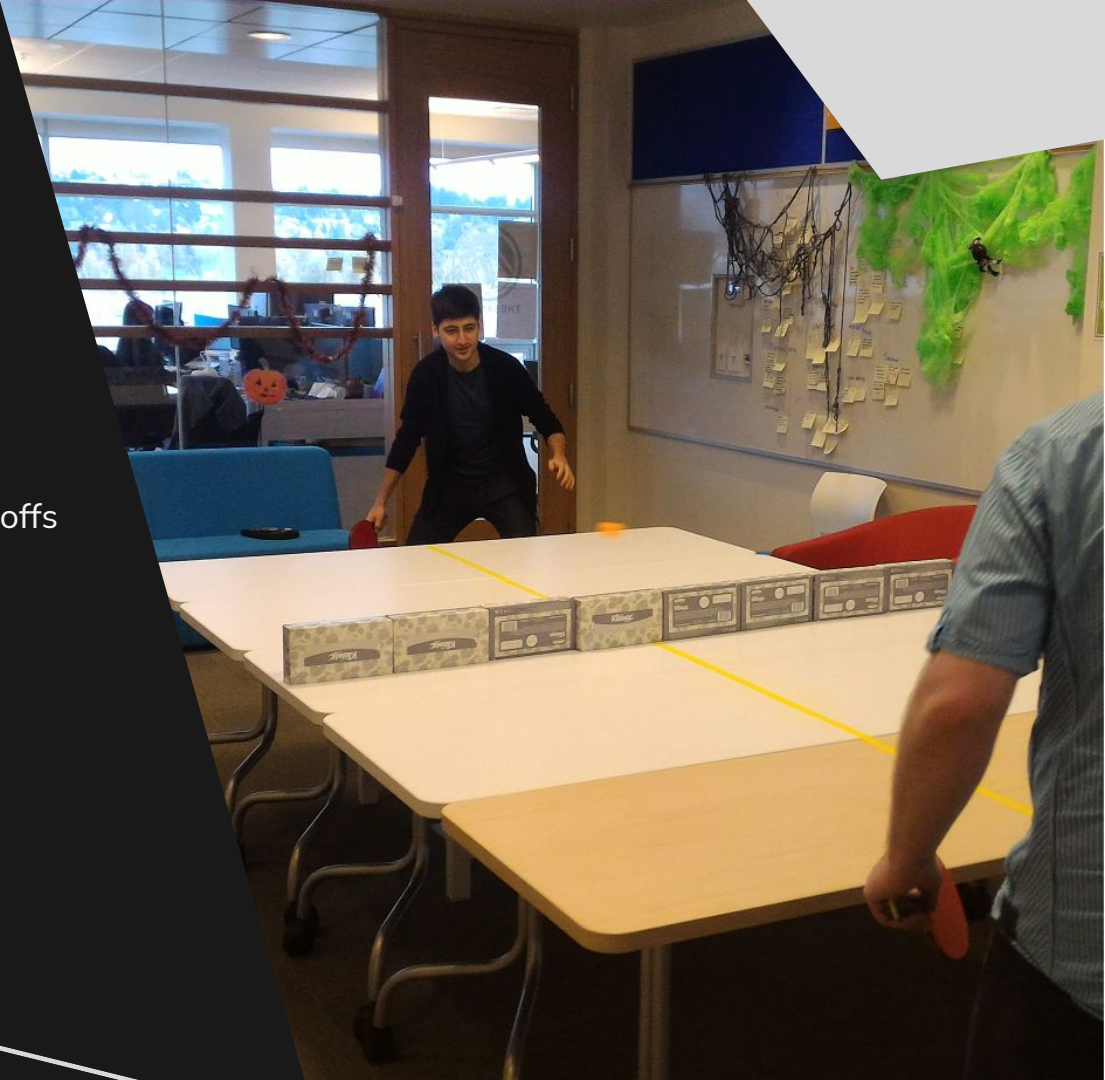
05.2

WHY PRACTICE?

Pause to think about a design and its costs

Vocalize your work and actions

Quickly analyze time/space complexity for tradeoffs



05.3

WHAT ABOUT FAANG?

Phase 1: Application

Phase 2: 1-1 screening or online assessment

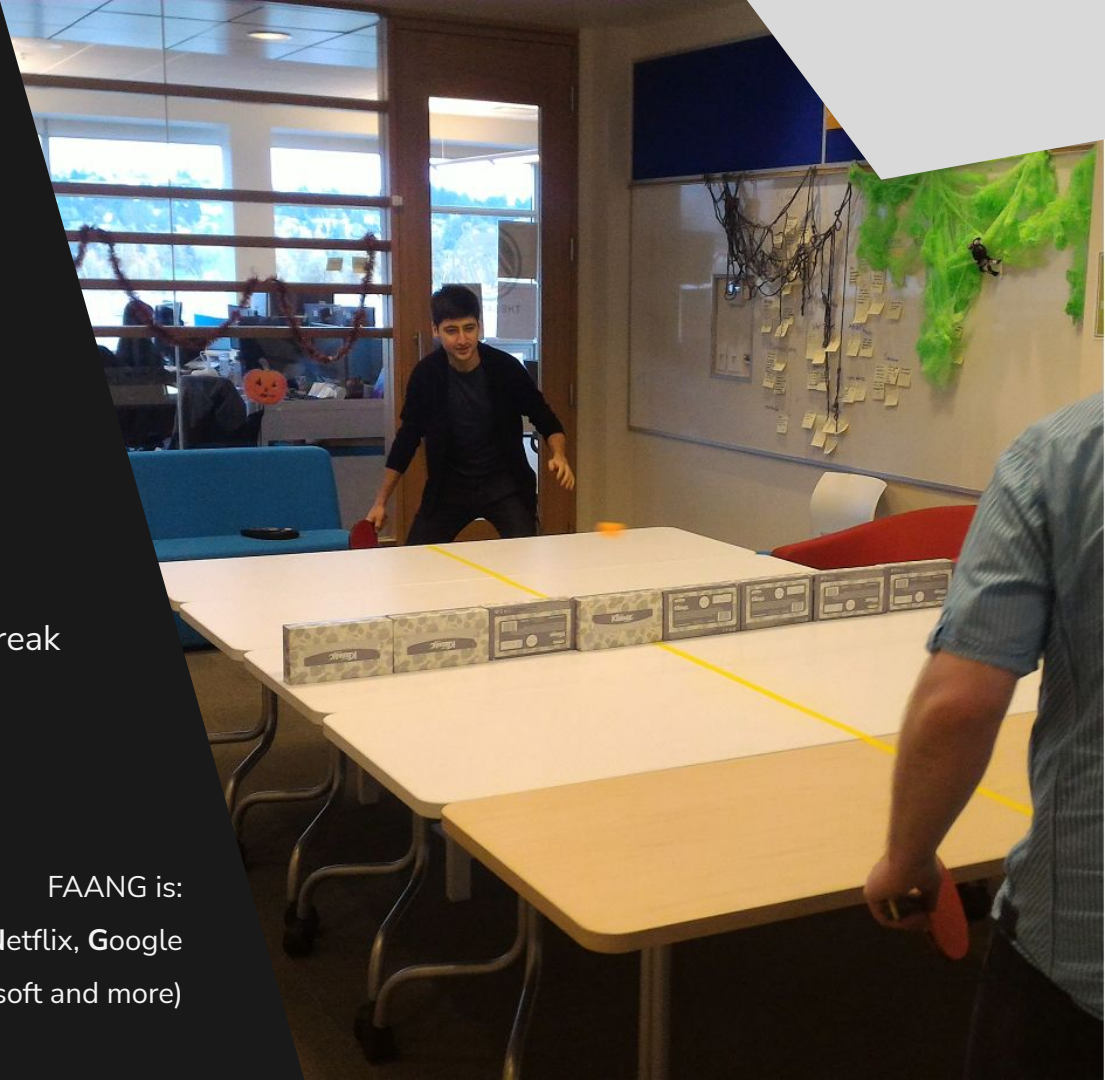
Phase 3: 4 consecutive rounds of behavioral & technical interviews

Each interview is 45 mins with 15 mins break

1-2 behaviorals, 1-2 technical questions

FAANG is:

Facebook, Amazon, Apple, Netflix, Google
(+ Microsoft and more)



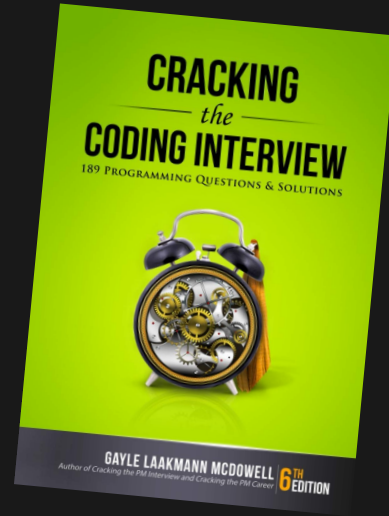
How do you conquer your fear
of technical interviews?

Get Cracking The Coding Interview.

Start practicing now.

Practice consistently.

Fail until you start succeeding.





QUESTIONS?

RESOURCES & CONTACT

RESOURCES

[Cracking the Coding Interview](#): Learn to do coding interviews

[LeetCode](#): Coding practice questions

Steven Zhang - [Landed 18+ Software Engineer Offers](#)

[Work at Google — Example Coding/Engineering Interview](#)

ONLINE COMMUNITIES

Reddit:

[Computing Science](#)

[CS Career Questions](#)

[Programming](#)

[Hacker News](#)

[Nova - Software Engineering](#)

[LeetCode Solution \(217 - Contains Duplicate\)](#)

INTERVIEWING AT FAANG

[How to Get a Job at the Big 4](#) by SJ Tech

[How To Get Hired into a FAANG Company](#)

Jeffrey Leung

Reach out to me through:
jleung513@gmail.com

[LinkedIn](#)

[Facebook](#)