

Quick Technical Interview Backup

If the assessment is followed by technical interview, revise these answers.

Introduce yourself

Template:

My name is _____. I am a _____ engineering student with interest in software development. I have worked on _____ project where I used _____ technologies. I am comfortable with fundamentals like data structures, OS, networking, and basic programming. I am currently focusing on improving problem-solving and writing clean code.

Explain your project

Use this structure:

1. Problem statement
2. Your role
3. Tech stack
4. Main features
5. One technical challenge
6. What you learned

Common technical answers

Process vs thread

A process has its own address space. A thread is lighter and shares process memory with other threads.

Stack vs queue

Stack follows LIFO. Queue follows FIFO.

OOP concepts

- Encapsulation: binding data and methods.
- Inheritance: child class reuses parent class features.
- Polymorphism: same interface, different behavior.
- Abstraction: hiding implementation details.

SQL basics

- Primary key uniquely identifies a row.
- Foreign key references primary key of another table.

- JOIN combines rows from tables.
- Normalization reduces redundancy.

API basics

API allows systems to communicate.

HTTP methods:

- GET: read
- POST: create
- PUT/PATCH: update
- DELETE: delete

Testing basics

Unit test checks one component. Integration test checks components together. Regression test checks old functionality after new changes.

HR backup

Why should we hire you?

Use evidence:

I have a good base in programming fundamentals, I practice problem solving consistently, and I can learn quickly. My project work gave me practical exposure to debugging, testing, and working with real requirements.

Strength

Pick one:

- structured problem solving,
- consistency,
- debugging patience,
- quick learning.

Give a real example.

Weakness

Use a fixable weakness:

Earlier I used to spend too long on one problem. I now time-box my attempts and move to alternate approaches faster.