

# Tutorial Assistant Interview Cheat Sheet (Computer Science)

## 1. Introduction / Self-Introduction

- Name, degree, university.
- Key skills: programming, databases, software engineering.
- Teaching experience (helping classmates, mentoring).
- Career goal: gain teaching experience, pursue research/postgrad studies.

Example: "I am [Name], a Computer Science graduate from [University]. I enjoy teaching programming and databases and have mentored fellow students. I aim to contribute as a Tutorial Assistant while preparing for further studies in [AI/Cybersecurity]."

## 2. Motivation

- Passion for teaching & learning.
- Desire to help students understand concepts.
- Gain academic experience for career growth.

Key phrase: "Teaching reinforces my own learning and allows me to contribute to students' success."

## 3. Teaching Approach

- Simplify complex topics with analogies & examples.
- Encourage interaction & participation.
- Use practical coding exercises.

Example: Stack -> "stack of plates (LIFO)"; Queue -> "line at bus station (FIFO)".

## 4. Classroom Management

- Engage unmotivated students via interactive exercises & real-life examples.
- Encourage group work and problem-solving.
- Relate theory to practical applications.

## 5. Core Technical Areas

Programming: Python, Java, C; Big-O notation; Stack vs Queue

Data Structures: Array vs Linked List, Hashing, Trees

Databases: SQL joins, normalization (1NF-3NF), ER diagrams

OS: Process vs Thread, Deadlock, Memory management

Networking: TCP vs UDP, OSI model, IP/TCP basics

Software Eng: SDLC, Agile methodology, UML diagrams

Emerging Tech: AI, Cloud computing, Machine Learning basics

## 6. Handling Unknown Questions

- Be honest -> "I will check and provide the correct answer next class."
- Shows integrity and continuous learning mindset.

## 7. Common Questions to Prepare

- Tell us about yourself.
- Why do you want to be a Tutorial Assistant?
- Explain [stack/queue/databases/algorithms].
- How do you handle unmotivated students?
- What are your research interests?
- Why should we hire you?

#### 8. Personal Preparation

- Dress formally & professionally.
- Bring CV, certificates, transcripts.
- Practice speaking clearly and confidently.
- Use short, clear answers with examples.