



Technical Interview Preparation Guide

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Technical Interview Preparation Guide

I. BEFORE THE TECHNICAL INTERVIEW

- Study the job description and list all required technical skills (languages, tools, frameworks, platforms).
- Review fundamentals: Data Structures, Algorithms, OOPs, Databases, OS, Networking, System Design.
- Prepare clear explanations for your past projects architecture, decisions, challenges, results.
- Practice coding on platforms like LeetCode, HackerRank, CodeSignal or according to your expertise.
- Update GitHub/portfolio with your latest work.
- Prepare 4–5 technical questions for the interviewer (stack, roadmap, expectations).

II. DAY OF THE INTERVIEW

- Ensure laptop, internet, compiler, and IDE are working.
- Keep resume + notes ready.
- Dress professionally.
- Join 5 minutes early; keep your environment distraction-free.
- Communicate clearly while explaining technical concepts.

III. DURING THE INTERVIEW

- Think aloud—explain your reasoning before coding.
- Clarify requirements before solving.
- Break the problem into steps.
- Offer a working solution first, then optimize.
- If stuck—share your thought process.
- Never bluff; explain how you'd approach learning unfamiliar concepts.

IV. AFTER THE INTERVIEW

- Send a thank-you email summarizing your interest.
- Revise concepts you missed.
- Follow up within a week if required.

V. ROLE-WISE TOPICS TO REVISE

- Developers: DSA, algorithms, OOPs, SQL, APIs, debugging, Git, System Design.
- QA: STLC, test cases, automation tools, API testing, JIRA.
- DevOps/Cloud: Docker, Kubernetes, CI/CD, AWS/Azure/GCP.
- Data Engineers: SQL, ETL, pipelines, warehousing, Python.
- Networking: Routing, switching, protocols, firewalls.
- Cybersecurity: OWASP, SIEM, vulnerabilities, encryption.
- Engineering: Core subject knowledge, formulas, standards, drawings.

VI. CODING INTERVIEW TIPS

- Start with a simple explanation of the problem.
- Use pseudocode when needed.
- Write clean, readable code.
- Test edge cases.
- Explain time/space complexity.
- Share scalability improvements.

VII. SYSTEM DESIGN BASICS

- Understand client–server architecture.
- Load balancing, caching, queues, microservices.
- Draw simple diagrams.
- Discuss trade-offs and choices.

VIII. TECHNICAL BEHAVIORAL QUESTIONS

- Describe a technical problem you solved.
- A time you optimized a system.
- Working across teams.
- A production issue you resolved under pressure.

IX. QUESTIONS TO ASK THE INTERVIEWER

- What tech stack does the team use?
- What challenges is the engineering team solving now?
- How is success measured in this role?
- What does the product architecture look like?
- What tools/frameworks should I know from day one?

X. THANK YOU EMAIL EXAMPLE

Dear [Interviewer Name],

Thank you for the technical discussion regarding the [Position Name]. I enjoyed learning more about the role and your tech stack.

I'm confident that my experience in [mention skills/technologies] aligns well with the expectations.

Looking forward to hearing from you.

Best regards,

[Your Name]