Networking Interview Questions

- 1. Can you explain the fundamental concept of how the internet works to someone with a non-technical background?
- 2. What is the role of protocols in Internet communication, and can you name a few essential protocols?
- 3. Differentiate between HTTP and HTTPS. Why is secure communication important on the Internet?
- 4. How do DNS (Domain Name System) and IP addresses work together to facilitate internet communication?
- 5. Explain the concept of REST (Representational State Transfer) in the context of web services.
- 6. What are the key principles of RESTful API design, and why are they important?
- 7. How does a client-server architecture function in the context of web development and APIs?
- 8. Can you provide examples of HTTP methods used in RESTful APIs and briefly explain their purposes?
- 9. What is the purpose of status codes in HTTP responses, and can you give examples of common status codes?
- Explain the concept of statelessness in RESTful APIs and why it is considered a key principle.
- 11. Describe the basic structure of a GraphQL query and how it differs from traditional REST API requests.
- 12. How does GraphQL solve over-fetching and under-fetching issues commonly associated with REST APIs?
- 13. Can you explain the concept of a "schema" in the context of GraphQL and why it's important?
- 14. What are the advantages of using GraphQL over traditional REST APIs for certain types of applications?



- 15. How does batching work in GraphQL, and why is it beneficial for optimizing data fetching?
- 16. In the context of web development, how do you choose between using RESTful APIs and GraphQL based on specific project requirements?
- 17. What is the key difference between GET and POST requests in HTTP?
- 18. How does the PUT method differ from the POST method, and in what scenarios would you use each?
- 19. Explain the purpose of the DELETE HTTP method and provide an example use case.
- 20. Describe the PATCH method and when it is preferable over other HTTP methods.
- 21. How does the OPTIONS method contribute to web development, and when is it typically used?
- 22. Explain the significance of the "Content-Type" header in an HTTP request.
- 23. What is the purpose of the "User-Agent" header, and how might it be useful for web developers?
- 24. What is gRPC, and how does it differ from traditional REST APIs in terms of communication?
- 25. Explain the benefits of using Protocol Buffers (protobuf) in gRPC for data serialization.
- 26. What role do service definitions play in gRPC, and why are they significant?
- 27. How does gRPC support HTTP/2 and what advantages does this bring over HTTP/1.1?
- 28. Can you compare and contrast RESTful APIs and gRPC, highlighting the strengths and weaknesses of each?

