Surviving the Technical Interview Roadmap

Assess Your Technical Knowledge
2 = You could whiteboard it without a reference and/or teach it to someone else (Depth)
1 = You can have a solid discussion about it and can identify it in code (Breadth)
0 = Very little knowledge or practical experience

Data Structures
__Linked lists
__Binary trees
__Trees/Hierarchies
__Stacks
__Queues
__Vectors/Arrays
__Hash tables

Design
__Design Patterns
__System Design
__Sequence Diagrams

Database
__DDL
__DML/SQL

Scalability
__load balancing
__caching

Algorithms
__Simple Search
__Binary Search
__Breadth First Search
__Depth First Search
__Sorting
__Quick Sort
__Merge sort
__K-nearest neighbors
__Dynamic Programming
__Recursion

OO Concepts
__Polymorphism
__Encapsulation
__Inheritance
__Abstraction
__Singleton, Factory, etc
__SOLID principles
__Interfaces

Performance
__Memory Management (Stack vs Heap)
__Run Times/Big O Notation
__Refactoring

Misc
__Debugging
__Test Driven Development
__Version Control Systems
__Agile/Waterfall/etc
__Bit manipulation
__Primitives
__Compilers
__Client/Server
__Hardware/Software
__Networking
__Operating Systems
__Key Methods in Libraries
__Frameworks/IDEs
__APIs

Interview Prep Sheet Your Experience

Project Showcase	❏ Website _____ ❏ Github _____ ❏ Blog _____ ❏ Project _____ ❏ Project _____ ❏ Project _____ ❏ Project _____
Internships/Consulting	
Hackathons/Coding Competitions	
Open Source Contributions	
Organizations	

Speaking points (Tell me about a time when…)

- ❏ You solved a problem:
- ❏ You fell short of a deadline or failed:
- ❏ Describe a decision that you made that wasn't popular and how you overcame it
- ❏ You disagreed with the outcome of a decision:
- ❏ You didn't know what you were doing but had to do it anyway:
- ❏ You made a mistake:
- ❏ You were pressured for results that you couldn't achieve

Company Information ❏ Size, Locations, culture...	Job Description (how does your experience line up?)	Your Interviewers: (make notes from their linked in profiles)