

Learn

- ☐ Basics of Algols + Time Complexities - 1 week
- ☐ Arrays, \rightarrow Pointers and Sliding Windows - 1 week
- ☐ Strings - 1 week
- ☐ Sorting Algorithms - 1 week

Learn

- ☐ Recursion - 1 week
- ☐ Hashing - 1 week
- ☐ Bit Manipulation - 1 week
- ☐ Maths Concepts for Coding (Permutations & Combinations, GCD, Modulo Arithmetic, Matrices etc) - 1 week

Learn

- ☐ Stacks - 1 week
- ☐ Queues - 1 week
- ☐ Linked Lists - 1 week
- ☐ Trees and Tries - 1 week
- ☐ Heaps - 1 week

Learn

- ☐ Greedy Algorithms - 1 week
- ☐ Dynamic Programming - 2 weeks
- ☐ Graphs - 1 week

Computer Science Fundamentals

DSA – Done & dusted!

Now you are capable of tackling **CS**
Fundamental topics methodically for
technical interviews in the Fifth month.

Learn

- ☐ Operating Systems - 1 week
- ☐ Computer Networks - 1 week
- ☐ Database Management Systems - 1 week
- ☐ Object Oriented Programming - 1 week

Learn

- ☐ Design Patterns & Schema, UML Diagrams
- 1 week
- ☐ Machine Coding - 1 week
- ☐ Architecture Design - 1 week
- ☐ Distributed Systems - 1 week
- ☐ Load Balancing, Regular Hashing, Caching
- 1 week
- ☐ Building Real Life Systems - 1 week

A sample breakdown of this month to **learn** how to build a project can be:

- ☐ Building Servers and MVC Architecture - **1 week**
- ☐ Web based Architecture - **2 weeks**
- ☐ Node.js, MongoDB, React - **2 weeks**

All Set!

- ☒ DSA for Problem Solving
- ☒ CS Fundamentals
- ☒ System Design Concepts
- ☒ Projects

All that you need to work on is revising all the things you learnt so far and your soft skills for behavioural & HR Rounds.

Here's to cracking that dream job! Godspeed.