

# 2nd Year Complete Roadmap: DSA + ECE + Intern Prep

## Phase 1: Foundation Mode (JULY - SEPTEMBER)

Goal: Build C++ + Basic DSA concepts

Topics:

- C++ STL, Arrays, Strings, Functions, Loops, Time Complexity

Platforms:

- LeetCode Easy
- GFG Babbar Sheet
- Apna College DSA Playlist

ECE Focus:

- Signals & Systems, Basic Electronics, Network Analysis

Daily Routine:

- 1 hour DSA + 2 hours Core ECE

LeetCode:

- Try Daily Problem (Optional)
- Solve 2 Easy Problems Daily

## Phase 2: Structure & Mastery (OCT - DEC)

Goal: Master Core DSA Topics & Build Resume

DSA Topics:

- Recursion, Linked List, Stack, Queue, Searching & Sorting

Platforms:

- LeetCode 75

- GFG Sheets

ECE Focus:

- Digital Logic, Control Systems, Microprocessors

Extras:

- Resume Draft
- GitHub Profile Setup
- Start Mini Project

### **Phase 3: Advanced DSA + Placement Mindset (JAN - MAR)**

Goal: Deep DSA + Problem Solving for Internships

Topics:

- Trees, BST, Graphs, Sliding Window, Two Pointers

Platform:

- LeetCode Medium + Striver's Sheet

ECE Focus:

- Communication Systems, VLSI, Signals (Revision)

Extras:

- Resume Polishing
- LinkedIn Update

### **Phase 4: Internship Prep (APR - JUNE)**

Goal: Internship Preparation & Final Revisions

Focus:

- Apply via Internshala, LinkedIn, AngelList
- Final Resume with Projects
- Revise All DSA Topics

## Top Resources

C++ STL:

- Take U Forward STL Playlist: <https://www.youtube.com/watch?v=RRubcjpTkks>

DSA Sheet:

- [Striver's Sheet:](https://takeuforward.org/interviews/strivers-sde-sheet-top-coding-interview-problems/)

LeetCode:

- LeetCode 75: <https://leetcode.com/studyplan/leetcode-75/>

ECE Concepts:

- Neso Academy: <https://www.youtube.com/@NesoAcademy>

Soft Skills:

- Great Learning: <https://www.youtube.com/c/GreatLearning>