Introduction:
I, Viranch Patel, am a final year Computer Science and Engineering student from IIT Goa. My primary interests are related to Software development and Programming. Hereby I will share some resources that helped me in my placement journey. I hope it will help many of you as well :)

Placements road map for IT/Software related jobs.

There are many placements-related roadmaps available on Youtube, I will attach all the links herewith. I will briefly mention the essential topics that one should focus on during the journey of 4 years of engineering. So that at the starting of the placement season one will be fully prepared for the interviews, if he/she had given importance to all the aspects.

P.S. I'm not a pro guide who can guide anyone for placements. I'm just sharing my thoughts and resources that helped me in my placement journey :)

For any IT/software-related job interviews, these are the main areas one should focus on.
- **Technical skills and academics**
  - **Data structures and Algorithms (VVVImp)**
  - **Computer science related subjects** (If the student is in CS or related field, he/she should have all the mandatory knowledge of the CS subjects such as OS, DBMS, Networking (Prepare these subjects smartly, not just go blindly and start preparing))
  - **Projects and Internships**
    - Make some decent projects of your interest while you're in your first, second and, third year.
    - It can be related to any field of your interests.
    - Do some good internships in your first three years. (Sources to find - LinkedIn, Career website of the companies, some telegram groups that I have shared at the end of this document).
    - The companies for internships can be any startup or any big companies. Your main focus should be learning new technologies and skills during the internships.
  - **Academic grades**
    - Many students tend to ignore this, but believe me, it's important for many big companies in the shortlisting process and if you want to go abroad for masters in future.
    - Start maintaining a decent CGPA from the upcoming semesters.
- **Soft skills**
  - **Communication**
    - This is the important aspect of any interview. Many of you might have studied in Gujarati medium until the 12th standard (I also studied in Gujarati medium).
    - So you have to start communicating in English with your friends, professors, family, or whoever is comfortable in English.
    - It takes time to improve, but if you don't start then, you won't succeed.

I have attached the links of resources that might help you in the areas that I mentioned above.

- DSA
  - You can choose any platform of your choice to practice the problems of DSA, but many of my friends and I preferred interviewbit or Leetcode.
  - https://www.interviewbit.com/practice/
  - https://leetcode.com/
  - You should participate in time-restricted contests because this will help you when you'll be giving the online test of an actual company.
  - Geeksforgeeks is the best resource for DSA related written material.
  - I have followed many Youtubers for different topics of DSA. I'm attaching the links to them. You can choose if you want to take reference of them or not. Youtube is full of content, you can take maximum benefit from that.
  - https://www.youtube.com/c/takeUforward
  - https://www.youtube.com/channel/UC5WO7o71wvxMxEtLRkPhiQQ
  - https://www.youtube.com/c/Pepcoding
  - https://www.youtube.com/c/TECHDOSE4u
  - https://www.youtube.com/c/LoveBabbar1
  - There are many more things on Youtube, but I don't want to confuse people by attaching more and more links, so you can go and explore yourself about what you like and prefer.
  - Here's the important sheet that helped me and thousands of students in DSA related problems in interviews.
    - https://takeuforward.org/interviews/strivers-sde-sheet-top-coding-interview-problems/
- For the projects part, you can take any of the topics of your choice and make some cool projects with your friends or solo as well. Because at the end your skills of development and the DSA will matter the most in placements.
  - You can refer to some of the channels from the following videos for more knowledge if you want to.
  - https://www.youtube.com/results?search_query=projects+for+placements
  - This is a very subjective area, and all the people can have different opinions about the projects, so I guess exploring all the fields on your own is the best solution.
- Core subjects
  - I preferred the following document and prepared the most important questions of all the subjects.
    - https://takeuforward.org/interviews/must-do-questions-for-dbms-cn-os-interviews-sde-core-sheet/
  - You can follow some of the best channels for this from youtube as well.
    - https://www.youtube.com/channel/UCJihyK0A38SZ6SdJirEdIOw
    - https://www.youtube.com/c/KNOWLEDGEGATE_kg