

Here's a **free** roadmap to improve **programming skills and DSA** for coding interviews:

Step 1: Master a Programming Language (Java/Python)

★ **Choose one:** If you plan to give interviews in Java, start with Java; otherwise, Python is also good.

✓ Java Resources (FREE)

- [Java Programming - GeeksforGeeks](#)
- [Java Tutorial - W3Schools](#)
- [Java 8+ Features - Learn Java](#)
- [Java Roadmap for Interviews](#)

✓ Python Resources (FREE)

- [Python Docs](#)
 - [Python for Beginners - W3Schools](#)
 - [Python DSA - GeeksforGeeks](#)
 - [100+ Python Problems - LeetCode](#)
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Step 2: Data Structures & Algorithms (DSA)

★ **Learn and practice DSA to clear coding interviews.**

✓ DSA Roadmap

- 1  **Start with Basics:** Arrays, Strings, Hashmaps, Recursion
- 2  **Move to Advanced Topics:** Linked Lists, Stacks, Queues, Trees, Graphs, Dynamic Programming

✓ DSA Free Learning Resources

- [NeetCode \(Best Free DSA Roadmap\)](#)
 - [DSA Handbook - CS50](#)
 - [Kunal Kushwaha's DSA Playlist \(Java\)](#)
 - [LeetCode Top Interview 150 \(Free Problems\)](#)
 - [Striver's DSA Sheet \(Best for Fast Learning\)](#)
 - [CSES Problem Set \(Competitive Practice\)](#)
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Step 3: Problem Solving Platforms

✦ Solve problems daily to get better.

Platform	Best For	Link
LeetCode	Best for coding interviews	LeetCode
HackerRank	Learning & basic DSA	HackerRank
Codeforces	Competitive programming	Codeforces
GeeksforGeeks	DSA theory & problems	GFG
AtCoder	Harder problems & contests	AtCoder

Step 4: System Design & Interview Preparation

✦ Once DSA is strong, prepare for real-world problems.

✓ Free System Design Resources

- [Grokking System Design \(Free Notes\)](#)
- [System Design for Beginners - GFG](#)
- [System Design Interview Questions](#)

✓ Mock Interviews (Free Practice)

- [Pramp \(Peer-to-Peer Mock Interviews\)](#)
 - [Interviewing.io \(Mock Interviews with Engineers\)](#)
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Step 5: Practice Daily & Track Progress

✦ Follow a consistent plan

- Solve at least **1-2 problems daily** on LeetCode
 - Review **DSA concepts weekly** using NeetCode & GFG
 - Join contests on **Codeforces & AtCoder** to improve speed
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🔥 Bonus: Weekly Plan for Beginners

Day	Topic	Resource
Monday	Arrays & Strings	NeetCode, LeetCode Easy

Day	Topic	Resource
Tuesday	Hashmaps & Sets	GFG, LeetCode Medium
Wednesday	Recursion & Backtracking	Striver's DSA Sheet
Thursday	Linked Lists & Stacks	NeetCode, Codeforces
Friday	Trees & Graphs	NeetCode, LeetCode
Saturday	Dynamic Programming	Striver's DP Sheet
Sunday	Mock Interview & Contest	Pramp, Codeforces Contest

🔗 Final Advice

- **Start with Python or Java and master it.**
- **Solve at least 300+ problems before interviews.**
- **Use LeetCode, NeetCode, and Codeforces for strong DSA skills.**
- **Practice System Design if aiming for senior roles.**

Would you like a more detailed **personalized** study plan based on your current skill level? 🔗