# Interview Preparation Topics and Resources

## 1. Algorithms and Data structures

-Very Important

-Choose one programming language preferably Java or C++.

-Topics ordered from most important to least important

- Arrays and Strings
- Hashmaps & HashTables
- Searching and Sorting
- Linked List
- Trees
- Stacks and Queues
- Dynamic Programming
- Graphs

-Time and Space complexity analysis of the code written is important.

Resources -

- geeksforgeeks.com provides with a huge question bank of relevant and important questions.
- Leetcode.com and Hackerrank.com for practising.
- Books - Cracking the coding interview, Data Structures and Algorithms Made Easy in Java

## 2. Aptitude

-Very Important

-Quantitative, Qualitative and English sections

Resource - indiabix for questions and topics

## 3. DBMS

-Medium importance

-Topics include -

- Relational Model
- Functional Dependency
- Normalization
- Transactions
- Sql queries

Resouce - geeksforgeeks

## 4. Operating Systems

-Medium-low Importance

-Topics include -

- Paging
- Process Scheduling
- Deadlock

Resouce - geeksforgeeks

# 5. <u>OOPS</u>

-Medium-High Importance
- Topics - principles of object-oriented programming

Resource-  Geeks for geeks