Michael Ventoso: [michaelventoso@gmail.com](mailto:michaelventoso@gmail.com) , https://www.linkedin.com/in/michael-ventoso/

User hacker rank to learn the algo/item.

Leet code is where you put all this together.

**Data Structures**:

Arrays (lists)

Strings

Hash Maps (dictionaries)

set,

stack,

queue,

tuple

Linked list + doublely linked

Tree - BST, Red/Black tree, Heap, Min/max Priority Queue, Trie

Graphs

**Algorithms**:

Searching- binary

Sort- Quick/Merge

Graph.tree traversal- Depth first/Breadth first, Shortest Path

Greedy algos

Hashing

Dynamic programming/memoization

Concepts that are nice to have:

* Bit Manipulation
* Threading/asynchronous processes

Also the more math you're comfortable with, the better (especially geometry,, probability, number theory, and maybe statistics) (edited)