Vocational English
II (Mesleki Yabancı
Dil II)
Week 3
05.04.2025





Engineering Faculty
Computeer Engineering

Prepared by: Dr Ercan Ezin

INTRODUCTION

Data Structures & Algorithms (DSA)

BLOG POST

TITLE: How to Study for Data-Structures and Algorithms Interviews at FAANG

INTRODUCTION

This is the story of how I got offers from Google, Amazon, Uber and more without a college degree.

THIS WAS ME IN 2015



THE IMPORTANCE OF PREPARATION

• I went from 0 → 100 in just a few months and I didn't do anything special aside from studying consistently. That's why I strongly believe any engineer can get good at these DS & Algo questions and get into F.A.A.N.G. or similar high paying roles.

GOOGLE PERKS





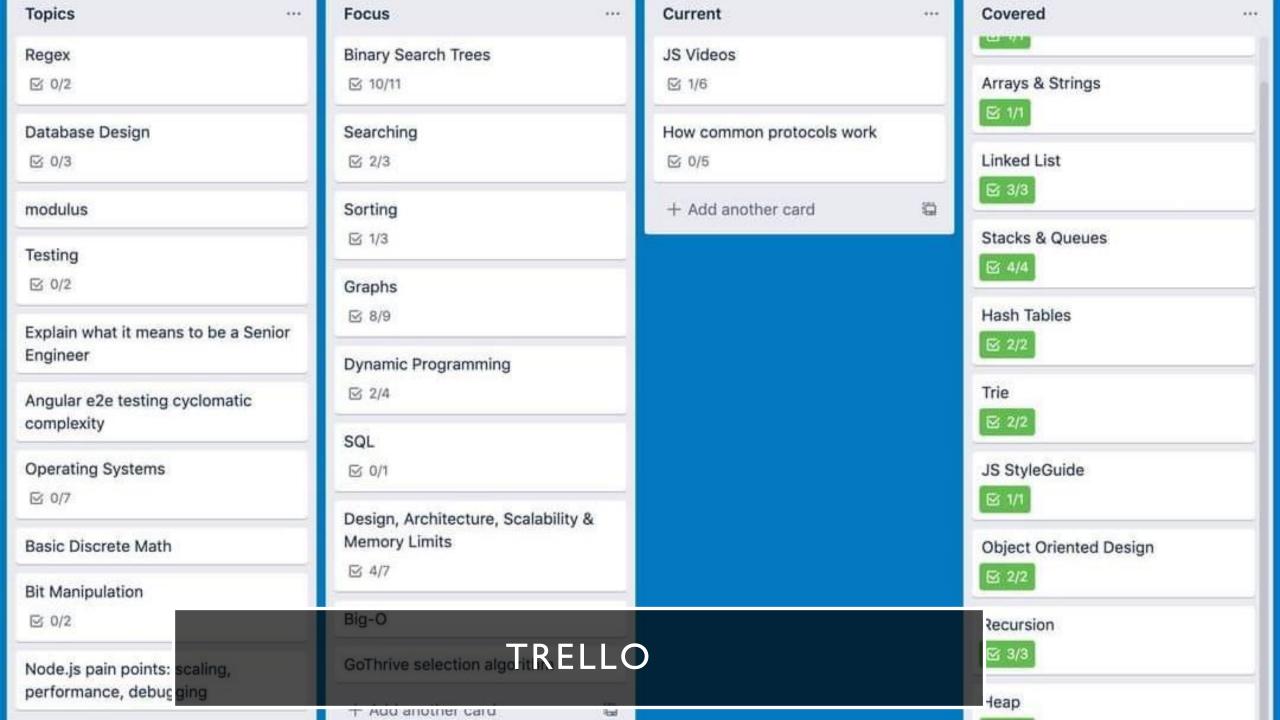
THE REALITY OF TECH INTERVIEWS

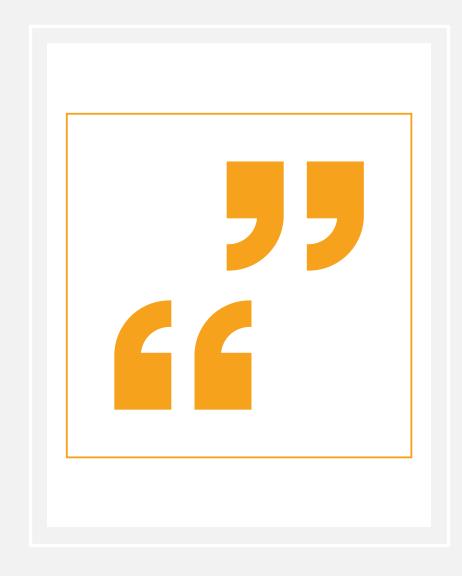
• I discarded this notion of the mythical engineer who can on a whim pass a tech interview and started to appreciate the reality of the situation, that tech interviews are like the SAT's they give in school. It doesn't matter that you spent four years learning all of the content in high school, you still need to prep if you want to ace the test.

BUILDING A STUDY PLAN

To solve a lot of these issues when I was studying, I created a Trello board with all the topics I wanted to cover.
 The board helped me focus on the most important topics I should be studying and manage my time to keep progress consistent.

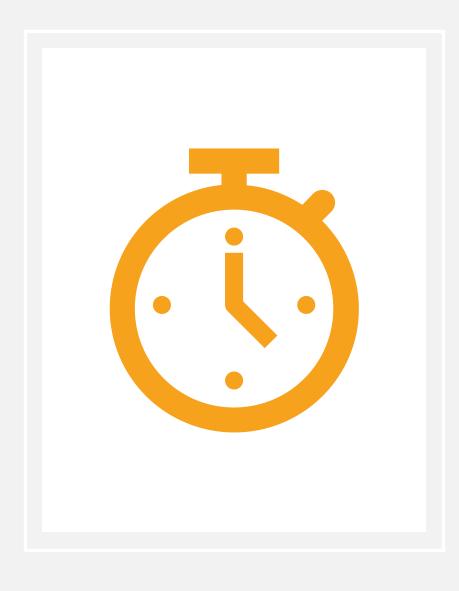






PRACTICE AND IMPLEMENTATION

• Practice implementing all of the datastructures mentioned earlier in this article until you don't need to look anything up and you will have a very easy time with these questions during the real interview. Focus on understanding why it's implemented the way it is rather than trying to remember the exact code.



KNOWING WHEN YOU'RE READY

• Keep track of your completion times when you do practice questions and aim for at most 40 minutes to complete most medium level questions and I hour to complete hard level questions on sites like leetcode.com or hackerrank.com.

WATCH THIS VIDEO FOR MORE ABOUT AUTHOR



https://www.youtube.com/watch?v=_aJ_EV9i0eA

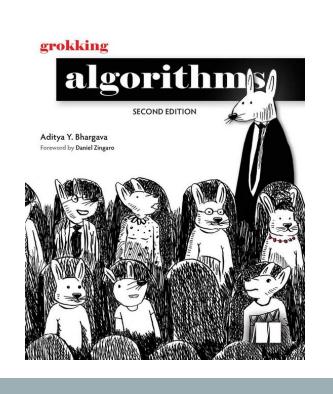
LISTENING/WATCHING ACTIVITY

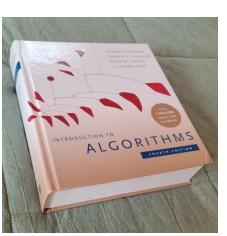


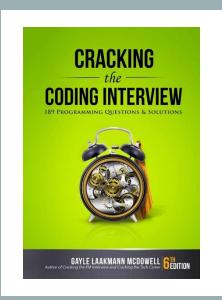
Top 6 Coding Interview Concepts (Data Structures & Algorithms)

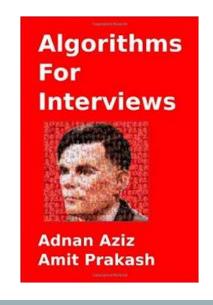


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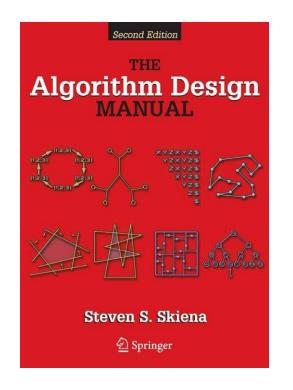


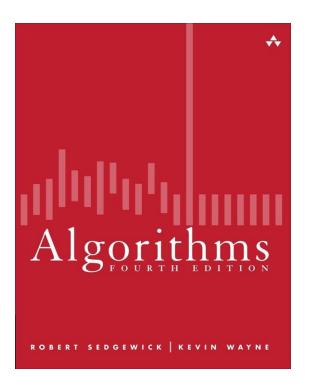




DSA RESOURCES

- https://www.techinterviewhandbook.org/algorit hms/study-cheatsheet/
- https://dev.to/somadevtoo/I0-must-read-datastructures-and-algorithms-books-fordevelopers-39fl





MORE DSA RESOURCES

WORDS OF THE WEEK

- Recursion
- 2. Greedy Algorithms
- 3. Dynamic Programming
- 4. Bit Manipulation
- 5. Graph
- 6. Heap (Priority Queue)
- 7. Trie
- 8. Disjoint Set
- 9. Binary Search Tree
- 10. Breadth-First Search (BFS)

- 11. Depth-First Search (DFS)
- 12. Dijkstra's Algorithm
- 13. Bellman-Ford Algorithm
- 14. Merge Sort
- 15. Quick Sort
- 16. Sliding Window
- 17. Backtracking
- 18. Divide & Conquer
- 19. Big-O Notation
- 20. LRU Cache

PS: Keep a journal where you note these words with their meanings and usages in a sentence.



EOF*