Data Structures and Algorithms in Python

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Advanced | 4 hr | 16 videos | 49 Exercises | 30,547 participants | 4050 XP | Updated: Dec 2024

Description

Most computer programs are based on a few data structures and algorithms. Learn about what's behind the hood of most of your computer interactions in this four-hour course! You'll familiarize yourself with some of the most common data structures: linked lists, stacks, queues, graphs and trees. You'll also implement popular algorithms, such as Depth First Search, Breadth First Search, Bubble sort, Merge sort, and Quicksort.

Read More

1 Work with Linked Lists and Stacks and Understand Big O notation

100%

You'll begin by learning what algorithms and data structures are. You will discover two data structures: linked lists and stacks. You will then learn how to calculate the complexity of an algorithm by using Big O Notation.

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2 Queues, Hash Tables, Trees, Graphs, and Recursion

100%

This second chapter will teach you the basics of queues, hash tables, trees, and graphs data structures. You will also discover what recursion is.

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