



4 Courses

**Divide and Conquer, Sorting
and Searching, and
Randomized Algorithms**

**Graph Search, Shortest
Paths, and Data Structures**

**Greedy Algorithms,
Minimum Spanning Trees,
and Dynamic Programming**

**Shortest Paths Revisited,
NP-Complete Problems and
What To Do About Them**

Stanford
ONLINE

Dec 9, 2022

Kartik Banshi Katkar

has successfully completed the online, non-credit Specialization

Algorithms

In this specialization, learners developed a fundamental understanding algorithms and data structures. Learners studied general algorithm design paradigms and their applications, including divide-and-conquer, greedy methods, and dynamic programming; how to use data structures; and how to recognize and tackle NP-hard problems. Learners completed quizzes and programming assignments, and took an exam for each course. Some online courses may draw on material from courses taught on-campus but they are not equivalent to on-campus courses. This statement does not affirm that this participant was enrolled as a student at Stanford university in any way. It does not confer a Stanford university grade, course credit or degree, and it does not verify the identity of the participant.

Tim Roughgarden
Associate Professor of
Computer Science
Stanford University

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