



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

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**Sarfraz Ahmad**

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.

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Associate Professor of  
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