



Jan 24, 2021

ABDULLAH AL MAHMOOD

has successfully completed

Algorithms on Graphs

an online non-credit course authorized by University of California San Diego and
National Research University Higher School of Economics and offered through Coursera

A handwritten signature in black ink, which appears to read "Daniel M Kane", is written over a horizontal dotted line.

Alexander S. Kulikov, Visiting Professor; Michael Levin, Associate Professor; Neil Rhodes, Adjunct Faculty; Daniel M Kane,
Assistant Professor, Computer Science and Engineering at the University of California, San Diego

**COURSE
CERTIFICATE**



Verify at coursera.org/verify/4WKYQXLFZLIG

Coursera has confirmed the identity of this individual and their
participation in the course.