

UC San Diego



HIGHER SCHOOL OF ECONOMICS
NATIONAL RESEARCH UNIVERSITY

Dec 19, 2022

Hazem Ragab Mohammed Raafat

has successfully completed

Algorithmic Toolbox

an online non-credit course authorized by University of California San Diego and offered through Coursera



A horizontal line with four handwritten signatures in black ink, likely belonging to the faculty members mentioned in the text below.

Alexander S. Kulikov, Visiting Professor; Michael Levin, Associate Professor; Neil Rhodes, Adjunct Faculty; Pavel A. Pevzner, Ronald R. Taylor Distinguished Professor of Computer Science, Director, NIH Center for Computational Mass Spectrometry; Daniel M Kane, Assistant Professor, Computer Science and Engineering at the University of California, San Diego

COURSE CERTIFICATE



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