

UC San Diego

Mar 20, 2024

M R Kalaiyarasu

has successfully completed

Algorithmic Toolbox

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



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



Verify at:
<https://coursera.org/verify/GC7YB6HE4SYJ>

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



Mar 21, 2024

M R Kalaiyarasu

has successfully completed

Data Structures

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

A handwritten signature in black ink, which appears to read "Daniel M Kane".

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:
<https://coursera.org/verify/2ZSKM2V6TDXU>

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



Mar 21, 2024

M R Kalaiyarasu

has successfully completed

Algorithms on Graphs

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

A handwritten signature in black ink, which appears to read "Daniel M Kane", is written over a 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:

<https://coursera.org/verify/5XMMDUKL7SRR>

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

UC San Diego



HIGHER SCHOOL OF ECONOMICS
NATIONAL RESEARCH UNIVERSITY

Mar 21, 2024

M R Kalaiyarasu

has successfully completed

Algorithms on Strings

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

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

COURSE CERTIFICATE



Verify at:
<https://coursera.org/verify/58HTRETEJYUG>

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



Mar 21, 2024

M R Kalaiyarasu

has successfully completed

Advanced Algorithms and Complexity

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

A handwritten signature in black ink, which appears to read "Daniel M Kane".

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:

<https://coursera.org/verify/YGNCUXUFK6S9>

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



Mar 21, 2024

M R Kalaiyarasu

has successfully completed

Genome Assembly Programming Challenge

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

A handwritten signature in black ink, which appears to read "Daniel M Kane".

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:

<https://coursera.org/verify/G9LCWQQ7UP7N>

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



6 Courses

Algorithmic Toolbox

Data Structures

Algorithms on Graphs

Algorithms on Strings

Advanced Algorithms and Complexity

Genome Assembly
Programming Challenge

UC San Diego

Mar 21, 2024

M R Kalaiyarasu

has successfully completed the online, non-credit Specialization

Data Structures and Algorithms

In this Specialization, learners developed and honed essential skills in developing fast and reliable programs. Learners studied theoretical aspects of basic algorithms as well as solved many programming assignments where the goal is to implement a program solving a given computational problem correctly and quickly. Learners completed a Capstone Project at the end of the Specialization to apply their new knowledge and skills.

Daniel Kane, Ph.D.,
Alexander S. Kulikov,
Ph.D., Neil Rhodes,
Pavel Pevzner, Ph.D.,
University of California,
San Diego

The online specialization named in this certificate may draw on material from courses taught on-campus, but the included courses are not equivalent to on-campus courses. Participation in this online specialization does not constitute enrollment at this university. This certificate does not confer a University grade, course credit or degree, and it does not verify the identity of the learner.

Verify this certificate at:

<https://coursera.org/verify/specialization/94HXK7X9LSP6>