



04/23/2020

Ahmed Emad El-Deen Lotfy

has successfully completed

Python Data Structures

an online non-credit course authorized by University of Michigan and offered through Coursera

A handwritten signature in black ink, appearing to read 'Charles', followed by a horizontal line.

Charles Severance
Clinical Professor, School of Information
University of Michigan

COURSE
CERTIFICATE



Verify at coursera.org/verify/EFZ8MW97LW2U

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