



06/23/2019

**Chang Liu**

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 Associate Professor, School of Information  
University of Michigan

**COURSE  
CERTIFICATE**



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their participation in the course.