UNIVERSITY OF MICHIGAN

COURSE CERTIFICATE

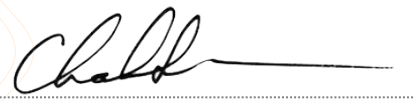
08/03/2020

Jans Johnson

has successfully completed

Using Python to Access Web Data

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



Charles Severance
Clinical Professor, School of Information
University of Michigan

Verify at coursera.org/verify/Z8XWU5CKULZZ

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

WEEK

1

3 hours to complete

Getting Started

In this section you will install Python and a text editor. In previous classes in the specialization this was an optional assignment, but in this class it is the first requirement to get started. From this point forward we will stop using the browser-based Python grading environment because the browser-based Python environment (Skulpt) is not capable of running the more complex programs we will be developing in this class.

6 videos (Total 21 min), 5 readings, 2 quizzes SEE ALL

WEEK

2

2 hours to complete

Regular Expressions (Chapter 11)

Regular expressions are a very specialized language that allow us to succinctly search strings and extract data from strings. Regular expressions are a language unto themselves. It is not essential to know how to use regular expressions, but they can be quite useful and powerful.

4 videos (Total 44 min), 1 reading, 2 quizzes SEE ALL

WEEK

3

3 hours to complete

Networks and Sockets (Chapter 12)

In this section we learn about the protocols that web browsers use to retrieve documents and web applications use to interact with Application Program Interfaces (APIs).

8 videos (Total 68 min), 1 reading, 2 quizzes SEE ALL

WEEK

4

4 hours to complete

Programs that Surf the Web (Chapter 12)

In this section we learn to use Python to retrieve data from web sites and APIs over the Internet.

8 videos (Total 58 min), 1 reading, 3 quizzes SEE ALL

WEEK

5

3 hours to complete

Web Services and XML (Chapter 13)

In this section, we learn how to retrieve and parse XML (eXtensible Markup Language) data.

8 videos (Total 62 min) SEE ALL

WEEK

6

5 hours to complete

JSON and the REST Architecture (Chapter 13)

In this module, we work with Application Program Interfaces / Web Services using the JavaScript Object Notation (JSON) data format.

12 videos (Total 95 min), 3 readings, 3 quizzes SEE ALL