

GIAC Python Coder



Online Course

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GIAC Python Coder

Course Modules

1. Control Structures and Iteration

Create and analyze simple control structures, including conditionals (if/else/elif) and for/while loops using Python.

2. Creation of Executables

- o Understandg of creating a Python executable for Windows clients with a focus on penetration testing.

- o Understanding of backdoor functionality, the conversion of a Python program to an executable file, and using Python to create an executable that will evade most modern anti-virus signatures.

3. Data Analysis with Python

Ability to use Python for various data analysis techniques including parsing binary data with the struct module, common file formats, log analysis and statistics with freq.py, counters and sets, long tail and short-tail analysis.



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4. Data Structures

Create and manipulate variable types & data structures, including bytes, byte arrays, byte encoded unicode characters using UTF-8 and Latin-1, integers, Python 3 strings, sets and sequential data structures, including dictionaries, lists, and tuples.

5. Database Interaction

Understand how to create a Python program to query databases using SQL libraries.

6. Exception Handling

Understanding of Python exception handling capabilities, and how to build these into a program.

7. Functions, Classes and Objects

Understanding of Python functions, classes, and object oriented programming.

8. Network Interfaces

Implement TCP and UDP network based communications using Python's socket module.



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9. Packet Analysis with Python

Understand how to use extended functionality of Python & Scapy to create, read, analyze, and manipulate captured network traffic.

10. Python Basics

Implement the more fundamental elements of Python, including creating, debugging and executing a program, and user/file input and output.

11. Regular Expressions

Basic understanding of regular expressions, and how to implement them in searches with Python.

12. Website Interaction

Understd how to use Python as a "browser" to interact with URLs and websites, handle cookies, and manipulate or capture traffic.

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**LEARN
REMOTELY!!**

The efficiency of online learning in terms of time management, flexibility, and the ability to access resources anytime, anywhere can be compelling.



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