BLACK HORSE

a PARSONS Company

INVESTIGATIONAL PYTHON COURSE (IP-C)

Automate OSINT/PAI Collection

Course Overview

Investigational Python is a 40-hour programming course that covers the essentials of object-oriented Python coding in a networked environment connected to the Dark Web via TOR. The coding exercises focus on methods of connecting to the Dark Web and building scraping tools to cull through websites. The course covers the essentials of installing and using Python on various operating systems, including creating a portable USB drive, object-oriented programming principles, building objects and modules, and using network libraries with Python. The students' practical coding and debugging skills are leveraged against virtual targets which can be enumerated, scraped, and categorized using Python programs written by the students. The students will graduate the course with usable, mission-oriented Python scripts

IP-C Course Deliverables & Schedule (40 hours)

Day 1	Day 2	Day 3	Day 4	Day 5
• Introduction to Object oriented Programming • Python Language Concepts • Input and Output • Coding Assignment 1 - Python on a Stick • Python on Mac, Linux, other devices • TOR standalone service • Project Brief	• Physical Architecture • Flow Control 1: Branching • Coding Assignment 2 – Network Connectivity • Files and Storage • Coding Assignment 3 – TOR service library API • Functions and Libraries • Project Review	• Physical Architecture • Flow Control 2: Loops • Coding Assignment 4 – Crawling Web Sites • Modularization • Coding Assignment 5 – Data Storage and Sorting • Communication with the internet	• Physical Architecture • Flow Control 2: Loops • Coding Assignment 6 - Working with Passwords • Modularization • Coding Assignment 7 – Dark Web Crawling • Communication with the internet	• Physical Architecture • Controlling Devices • Final Coding Assignment – Connecting the Code to the Project • Project Review • Course Review • AAR / Graduation

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We offer the option to join an online open enrollment course, or to create a contracted, dedicated course to meet your organization's operational requirements. For contracted training and price quotes please send all inquiries to

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