

### **SEC573.1: Essentials Workshop with pyWars**

- Syntax
- Variables
- Math Operators
- Strings
- Functions
- Modules
- Control Statements
- Introspection

### **SEC573.2: Essentials Workshop with MORE pyWars**

- Lists
- Loops
- Tuples
- Dictionaries
- The Python Debugger
- Coding Tips
- Tricks and Shortcuts
- System Arguments
- ArgParser Module

### **SEC573.3: Defensive Python**

- File Operations
- Python Sets
- Regular Expressions
- Log Parsing
- Data Analysis Tools and Techniques
- Long-Tail/Short-Tail Analysis
- Geolocation Acquisition
- Blacklists and Whitelists
- Packet Analysis
- Packet Reassembly
- Payload Extraction

### **SEC573.4: Forensics Python**

- Acquiring Images from Disk
- Memory and the Network
- File Carving

- The STRUCT module
- Raw Network Sockets and Protocols
- Image Forensics and PIL
- SQL Queries
- HTTP Communications with Python Built in Libraries
- Web Communications with the Requests Module

### **SEC573.5: Offensive Python**

- Network Socket Operations
- Exception Handling
- Process Execution
- Blocking and Non-blocking Sockets
- Using the Select Module for Asynchronous Operations
- Python Objects
- Argument Packing and Unpacking

### **SEC573.6: Capture-the-Flag Challenge**