

# Cybersecurity Bootcamp

Start your cybersecurity career and prepare for a new job in the growing field. Learn the skills for cybersecurity roles like Engineer and Analyst, and gain in-demand technical skills including Python programming, computer networking, Linux, and cloud computing in AWS.

Group classes in NYC and onsite training is available for this course. For more information, email [corporate@nobledesktop.com](mailto:corporate@nobledesktop.com) or visit: <https://www.nobledesktop.com/certificates/cybersecurity>



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## Course Outline

This package includes these courses

- Intro to Cybersecurity & Networks (24 Hours)
- Linux Operating System & Bash Scripting (18 Hours)
- Python Programming Bootcamp (30 Hours)
- Python for Network Security (30 Hours)
- Cybersecurity with Python (30 Hours)
- Offensive Security with Python (24 Hours)
- Digital Forensics (24 Hours)
- Cloud Computing with AWS (18 Hours)
- Cybersecurity Industry & Job Prep (12 Hours)

## Intro to Cybersecurity & Networks

- Learn how computer communication and security systems work
- Get to know network models and the layers within them
- Gain an understanding of authentication, authorization, and admin roles

## Linux Operating System & Bash Scripting

- Use fundamental Linux commands and Bash scripts
- Navigate directories, files, and distributions for cybersecurity
- Learn Linux permissions and file security

## Python Programming Bootcamp

Learn Python programming from the ground up, covering essential concepts, real-world applications, and coding best practices. This course prepares you to tackle technical challenges and build a portfolio of Python projects.

- Master Python fundamentals, including variables, data types, loops, and functions.
- Develop logical programming skills using conditionals, indexing, and slicing techniques.
- Work with file handling operations such as reading, writing, and appending to text files.
- Explore computer science fundamentals, including Big-O notation and sorting algorithms.
- Gain hands-on experience with object-oriented programming (OOP) to build scalable applications.
- Use Git and GitHub to manage projects and create a professional coding portfolio.

## Python for Network Security

- Foundational protocols for network transfer
- Fundamentals of Python programming for network monitoring
- Scripting tools for basic network security

## Cybersecurity with Python

- Automate security processes
- Execute system administration tasks
- Solve common IT problems

## Offensive Security with Python

- Learn the major tools and strategies for preventing, detecting, and responding to cyber attacks
- Learn how to plan and execute penetration tests
- Perform threat modeling and vulnerability analysis

## Digital Forensics

- Learn the structure and daily operations of a modern Security Operations Center (SOC)
- Understand security monitoring, logging, and the incident response lifecycle
- Develop strategies for implementing security protocols

## Cloud Computing with AWS

- Learn the fundamentals of AWS and cloud computing
- Build and secure an enterprise-level cloud environment
- Navigate cloud infrastructure, networking, and databases

## Cybersecurity Industry & Job Prep

- Learn job search strategies
- Prepare your resume
- Participate in mock interviews
- Review different job opportunities