



**PYTHON  
INSTITUTE**

OpenEDG | OPEN EDUCATION AND DEVELOPMENT GROUP

Verify this certificate's authenticity at  
[verify.openedg.org](https://verify.openedg.org):  
`adrd.ONE5.JWCg`



# CERTIFICATE

Exam Code: **PCAP-31-03**

Date Certified: **October 22, 2023**

Scope:


- Modules and Packages (12%)
- Exceptions (14%)
- Strings (18%)
- Object-Oriented Programming (34%)
- Miscellaneous (List Comprehensions, Lambdas, Closures, and I/O Operations) (22%)

of proficiency in the  
Python programming language

**Joanna Czarnocka**

PCAP – Certified Associate in Python Programming  
(Exam PCAP-31-0x)



  
Christopher Boguslawski  
President, Python Institute