M UNIVERSITY OF MICHIGAN

COURSE
CERTIFICATE

Aug 1, 2020

Manjunatha H G

has successfully completed

Programming for Everybody (Getting Started with Python)

an online non-credit course authorized by University of Michigan and offered through Coursera

Charles Severance
Charles Severance
Clinical Professor, School of Information
University of Michigan

coursera
EDUCATION FOR EVERYONE · COURSE CERTIFICATE

Statement of Achievement

PCAP: Programming Essentials in Python

The graduate of the *PCAP: Programming Essentials in Python* course, provided by **Cisco Networking Academy**®in collaboration with **OpenEDG JavaScript Institute**:

- knows the universal concepts of computer programming, including variables, data structures, algorithms, control flow, functions, and exceptions;

- can proficiently use the developer tools, the runtime environment, and the syntax and semantics of the Python language;

- can use fundamental programming techniques, best practices, customs, and vocabulary, including the most common standard library functions in Python 3;

- can write Python programs using standard language infrastructure, and knows the means by which to resolve typical implementation problems;

- knows how to work with modules and packages, process text and binary files, and use generators, iterators, and closures;

- understands the fundamentals of object-oriented programming (OOP) and the way they are adopted in Python.

Manjunath HG

Student

Maciek Wichary
VP & CEO, OpenEDG

23 Jul 2020

Date