



CERTIFICATE

Dmytro Kruhlov

Has successfully completed

PYTHON DEVELOPER

course at GoIT

18/04/2024

Unique ID 26317

PYTHON

goit.global

CEO of GoIT

Anton Chorny

A stylized white signature of Anton Chorny on a black background.

Supplement to Python Developer course certificate

General information

Soft Skills

2 classes, 4 hours

Python Core

24 classes, 48 hours

12 assignments on Tech Skills

1 team project

Python Web

28 classes, 56 hours

14 assignments on Tech Skills

1 team project

Data Science

24 classes, 48 hours

12 assignments on Tech Skills

3 assignments on Career Skills

1 team project

Python core units

Unit 1. Data Types in Python

Unit 2. Control structures. Exceptions

Unit 3. Functions.

Unit 4. Data structures

Unit 5. Advanced work with strings

Unit 6. Work with files

Unit 7. Creating and installing custom packages, virtual environment

Unit 8. Work with date and time. Collections. Comprehensions

Unit 9. Functions. Decorators. Closure. Carrying

Unit 10. OOP. Basics of working with classes

Unit 11. OOP. 'Magic' class methods

Unit 12. Serialization and copy objects

Python Web units

Unit 1. SOLID and Design Patterns

Unit 2. Python Development tools. Poetry. Docker

Unit 3. Multithreading and Multiprocessing in Python

Unit 4. Web fundamentals

Unit 5. Asynchronous programming in Python

Unit 6. Relational databases. Postgres

Unit 7. ORM SQLAlchemy

Unit 8. NoSQL databases. MongoDB. Redis. RabbitMQ

Unit 9. Web-scraping. BeautifulSoup. Scrapy

Unit 10. Fundamentals of working with Django

Unit 11. Building a REST API with FastAPI

Unit 12. Authorization and Authentication. JWT

Unit 13. Sending emails. Basics of web application security

Unit 14. Testing and deploying web applications. Unittest. Pytest. Sphinx

Data Science units

Unit 1. Introduction to Data Science

Unit 2. EDA. Basics of statistics

Unit 3. Classical machine learning

Unit 4. Classification. Model evaluation

Unit 5. Other supervised learning algorithms

Unit 6. Unsupervised learning

Unit 7. Recommender systems

Unit 8. Deep learning

Unit 9. NNs Hyperparameters tuning

Unit 10. Convolutional neural networks

Unit 11. Sequence Models

Unit 12. Intro to NLP. State of the art NN