

CERTIFICATE

IVAN LAUSHKIN

Has successfully attended

PYTHON DEVELOPER

course at GoIT

21/02/2024

Unique ID 23821

PYTHON

goit.global

CEO of GoIT

Anton Chornyi



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

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. Beautiful Soup. 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