

The logo consists of two black rectangular boxes. The first box contains the word "GO" in white, and the second box contains the word "IT" in white. An orange arrow points from the "GO" box to the "IT" box.

GO

IT

# CERTIFICATE

Anton Babenko

Has successfully completed

**PYTHON DEVELOPER**

course at GoIT

29/08/2024

Unique ID

**31757**

[goit.global](https://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