GO IT

CERTIFICATE

TYMOFII SVYRHUN

Has successfully completed

PYTHON DEVELOPER

course at GoIT

18.09.2024

Unique ID

31424

goit.global

CEO of GoIT

Anton Chornyi

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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 projects

Python Web
28 classes, **56** hours
14 assignments on Tech Skills
1 team projects

Data Science
24 classes, **48** hours
12 assignments on Tech Skills
1 class, **2** hours
3 assignments on Career Skills
1 team projects

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
Uni 10. OOP. Basics of working with classes

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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