

Développement



Web Development with Python and Django

Code your own web applications using Python and Django.



Durée de la formation :
305 heures



Temps d'études conseillé à temps plein :
8 mois



Certification OpenClassrooms

OPENCLASSROOMS

Projet 1 - 80 heures

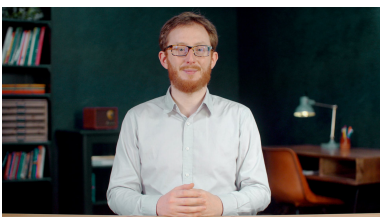
Develop a Software Program Using Python

The local chess club needs help. You are working as a freelancer, and they have asked you to write a new program to help them manage their events. Time to put your new skills in developing high-quality Python software to use!

Compétences cibles

- Use object-oriented programming to develop a Python program
- Write robust Python code using PEP 8
- Structure the code of a Python program using a design pattern

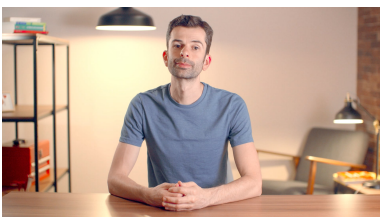
Cours associés



Learn Programming With Python

 Facile  12 heures

Are you a Python beginner? Take your basic coding skills to the next level with object-oriented programming. Practice using methods, classes, inheritance, and modules, and start coding your own applications!



Write Maintainable Python Code

 Facile  8 heures

Now that you've learned to program with Python, make your code clean, readable, easy to modify, and resistant to bugs by applying the PEP 8 style guide for Python, a few key design patterns (including MVC), and the SOLID principles.

Projet 2 - 40 heures

Develop a User Interface for a Python Web Application

As a developer at a streaming company, you have been entrusted with a new project: code the user interface of a Flask web application in HTML, CSS, and JS. It's a great opportunity to gain experience using an API!

Compétences cibles

- Develop a user interface using HTML, CSS, and JS
- Interact with an API

Cours associés



Build Your First Web Pages With HTML and CSS

 Facile  10 heures

Learn to create your first web pages using HTML and CSS, the two most important languages on the web. No coding experience required!



Create Web Page Layouts With CSS

 Facile  10 heures

Go beyond basic HTML and CSS skills and learn how to create great layouts using CSS layout techniques!



Produce Maintainable CSS With Sass

■ ■ Moyenne ⌚ 15 heures

Learn to write clean, maintainable, and modular CSS code through the implementation of designed naming and file structures, such as BEM, and the use of Sass, a CSS precompiler.



Learn Programming With JavaScript

■ ■ Facile ⌚ 15 heures

Build a strong foundation in web development by learning and practicing JavaScript, one of the major programming languages on the web. You'll even create a simple application!



Build Your Web Projects With REST APIs

■ ■ Facile ⌚ 4 heures

Enhance your web projects with REST APIs by accessing data that can be integrated into your own applications. APIs will add a whole new dimension to your software!

Projet 3 - 105 heures

Develop a Web Application Using Django

You've just been hired as lead Python developer at a new startup. Use the powerful Django framework to make their digital product a reality!

Compétences cibles

- Develop a web application using Django
- Use server-side rendering in Django

Cours associés



Create a Web Application With Django

 Moyenne  12 heures

Discover Django, one of the most popular Python web frameworks. Build an app using MVT architecture, the Django Admin, and your own custom-built CRUD interface.



Intermediate Django

 Moyenne  12 heures

Take your Django web applications to the next level with authentication, modularity, and advanced functionalities of models, forms, templates, and the Django ORM.



Develop Your Creativity

Facile

8 heures

Creativity is a key skill when problem-solving. Develop your convergent and divergent thinking by building a toolkit of practical exercises to help you innovate at work and in job applications.

Projet 4 - 80 heures

Create a Secure RESTful API Using Django REST

Take your Django skills to the next level by building and documenting a RESTful API in compliance with OWASP and GDPR security standards.

Compétences cibles

- Create a RESTful API using Django REST
- Document an application
- Secure an API to comply with OWASP and GDPR standards

Cours associés





Secure Your Web Application With OWASP

 Moyenne  10 heures

To create a quality application, you must implement secure coding practices! Learn to apply the techniques of OWASP, an online community providing invaluable techniques and tools for reducing security risks in web development.



Write the Technical Documentation for Your Project

 Moyenne  6 heures

Produce clear and maintainable documentation for your project with naming conventions, README, API documentation tools, and a technical architecture document.