

Development



# Web Developer

Jumpstart your career in web development by learning to build responsive, dynamic websites.



Path duration:  
400 hours



Job guarantee\*\*



Personal mentor



Average duration  
of full-time study:  
6 months



Associate's-level  
diploma\*

\*Développeur web - NSF 326t - Level 5 (Eu) 5 (UK) Associate's-level diploma (Fr) - filed in the RNCP by ministerial order 2/25/16  
officially published on 3/17/16

\*\* Conditions available at <https://openclassrooms.com/en/job-guarantee>

**OPENCLASSROOMS**

One million computer programming jobs are estimated to be created in the U.S. by 2020 - as well as 700,000 in Europe - thanks to unprecedented growth in the tech sector.

Here at OpenClassrooms, we pinpoint the key skills needed for the most in-demand jobs and develop courses and diplomas to train our students in those areas. That's why we've developed this six-month associate-level diploma in web development, which you can complete entirely online with the help of a dedicated mentor.

## What will I do as a web developer?

Web developers are a fundamental part of any tech team. As entry-level developers, they bring to life the mockups created by UX designers. They translate these graphic recommendations into web languages by writing HTML, CSS, and JavaScript code. They are often in charge of:

- translating graphical mockups into web pages in HTML and CSS
- integrating text, image, animation, video, and sound content on the web
- optimizing the performance and compliance of web pages
- establishing communication between the interface and server with JavaScript
- develop simple web applications from user requirements specifications

You're probably new to web development and may still be wondering whether the Web Developer Path is the right path for you. Learn more about the field of web development [here](#).

## How much will I earn?

Web development can be a lucrative career with many prospects opening up as you continue to rack up valuable experience. Here is what you can expect to earn in your career as a web developer, followed by your economic opportunities as you evolve in your web development career.

### United States

Entry-level web developer: \$25,000 - \$75,000

Experienced web developers: \$50,000 - \$90,000 +

### United Kingdom

Entry-level web developer: £21,000 - £25,000

Experienced web developers: £25,000 - £40,000 +

Salaries will vary depending on your location or the location of your employer.

## What are my job prospects?

According to the [United States Bureau of Labor Statistics](#), over 24,000 new job positions in web development will be created between 2016-2026, with a 15% growth rate.

OpenClassrooms' Web Developer Path can prepare you for the following jobs:

- Junior web developer (5000+ jobs listed in US + UK on Indeed, Glassdoor, and Reed)
- Web developer
- Web integrator
- Webmaster
- Web designer
- E-commerce web developer

Earning a certification as a web developer will give you:

- an accelerated dive straight into a web development career at the entry-level, or
- a head start if you decide in the future to pursue more advanced web development training as a front-end, back-end, or full-stack developer.

## Who is eligible to enroll?

This training program seems technical but **it's accessible to all, with no academic background required**. Here are the only prerequisites:

- A good level of English (for non-native speakers, a CEFR level of B2, an IELTS band score of 6.5, or a TOEFL score of 80 is recommended).
- Access to a computer (PC or Mac), headphones, a webcam, and a good internet access (3.2 Mbps upload and 1.8 Mbps for download). You can use an Internet speed test to find out like [High Speed Internet](#).

## What will I learn?

By the end of this path, you will have learned and practiced the following professional

skills:

- Apply the mentality and techniques of a lifelong learner
- Integrate a web page from a graphical mockup in HTML5, CSS3, and Sass
- Implement a relevant navigation structure for a website
- Create simple animations using CSS
- Research, analyze, and implement current SEO best practices
- Ensure web pages are compliant with accessibility standards
- Make websites responsive to screen sizes and compatible with different browsers
- Change elements of a website dynamically using the JavaScript programming language
- Develop and interact with web services with Node.js, Express, and MongoDB
- Process and store user data securely according to OWASP standards
- Build user interfaces and single-page applications using the Vue.js framework

## How will I learn at OpenClassrooms?

Our learning method is unique and revolves around two elements: **professional projects** and dedicated **mentoring sessions**.

### Projects

At OpenClassrooms, learning is [project-driven](#) because that's the fastest way to become proficient. Projects offer hands-on experience so you can hit the ground running when you start your new job.

The Web Developer Path has 7 projects that you'll need to complete one at a time. You'll receive a detailed brief with the context, customer requirements, and additional details. Then it's up to you to go and make it real! To do this, you'll have to be creative, coming up with innovative solutions to the questions at hand.

Want to see an example of a project? Read our blog post [here](#).

### Mentorship

During your path, you will be assigned a mentor who will offer one-to-one support via weekly video conference sessions. This mentor will offer guidance on your projects, help define objectives and guide you until you reach them. Our mentors are dedicated professionals who are experts in their field and have experience in sharing their know-how with our students.

Any questions? Contact our student advisors at +44 20 3868 9900 or +1 (929) 376 0101, or [request more information here](#). Opening hours: Monday to Friday 8.30am- 6.00pm UK time, until 1 pm Eastern Time.

## Project 1 - 20 hours

# Take Ownership of Your Learning on the Web Developer Path

In our changing world, being skilled in learning is more important than ever. Become an active, autonomous learner to set yourself up for success on this path and in your future career.

## Skills


- Develop a personalized learning plan and toolset

## Associated courses



### Learn How to Learn

 Easy


 6 hours

The ability to learn quickly and effectively is a key skill that can open the door to any domain or career throughout your life. Follow this course to improve your learning capacity and to take control of your personal and professional development!



### Understanding the Web

 Easy

 4 hours

Does the web interest you, but you aren't totally clear on how the whole thing works behind the scenes? Learn internet history, vocabulary, logistics, and more with this course!

## Project 2 - 70 hours

# Turn Mock-ups Into a Web Page

Get started with HTML & CSS by implementing a travel booking platform's website from scratch.

## Skills

- Implement a responsive layout
- Track a code project with version control on GitHub
- Set up a development environment
- Integrate web content according to a mockup using HTML & CSS

## Associated courses



### Set Up Your Front-End Development Environment

 Easy  4 hours

The front-end developer, as other job, has a corresponding toolset. In this course, you'll install and begin to explore the tools you'll use throughout your career as a front-end developer.



### Build Your First Web Pages With HTML and CSS


 Easy  10 hours

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

 Easy


 10 hours

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



## Manage Your Code Project With Git & Github

 Easy

 20 hours

Using Git and Github is key for programmers, especially when working on a team! Manage your source code and track changes to your files with version control. Fix mistakes with Git commands!

## Project 3 - 90 hours

# Integrate a mobile website with animations in CSS

Implement the mobile version of this foodtech website with CSS animations.

## Skills

- Implement design effects using CSS & Sass
- Ensure design consistency on a website
- Develop a navigation structure for a website

## Associated courses



### Produce Maintainable CSS With Sass

 Medium  15 hours

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.



### Create Modern CSS Animations

 Medium  15 hours

By animating elements of a web page, we can guide the attention of our visitors, creating a more fluid user experience. Take your CSS skills to the next level and bring your web pages to life with modern CSS animations!



## Project 4 - 30 hours

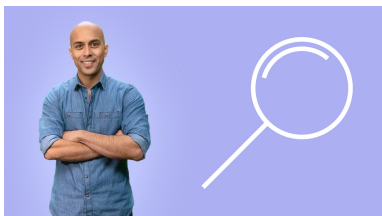
# Optimize an Existing Website

Research and implement current best practices and standards in web development, including SEO, size and speed, and accessibility.

## Skills


- Research web development best practices
- Ensure the accessibility of a website according to WCAG2.0
- Optimize the size and speed of a website
- Analyze the search engine performance of a website
- Write current, maintainable code in HTML & CSS

## Associated courses



### Drive Traffic to Your Website With Search Engine Optimization (SEO)

 Easy

 10 hours

Find out how to implement an effective SEO strategy as part of your organization's overall online marketing plan. Increase organic traffic from Google to your website.

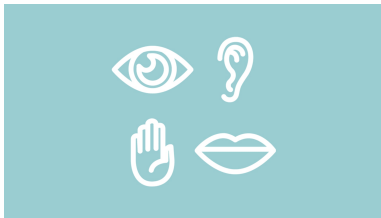


### Ensure Your Website Meets Technical SEO Requirements

 Medium

 10 hours

Drive traffic to your website by improving its crawlability and speed. Also learn how to optimize a website coded in JavaScript or a multilingual website to meet the requirements of search engines.

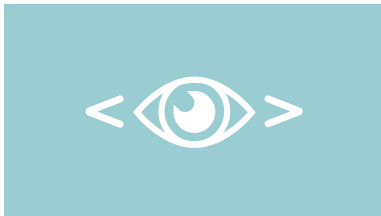


## Make Your Web Content Accessible

 Easy


 6 hours

How do people with disabilities interact with the web using assistive technologies? In this course, you'll assess for web accessibility barriers using the Web Content Accessibility Guidelines (WCAG) and design with digital inclusion in mind, from visual design to interactions.



## Code an Accessible Website in HTML & CSS

 Medium

 6 hours

Apply digital inclusion principles in your HTML & CSS code using ARIA, alt tags, and other digital accessibility tools. Learn to comply with the W3C WCAG (Web Content Accessibility Guidelines) as a developer.

## Project 5 - 90 hours

# Build an eCommerce Website

Use the JavaScript programming language to interact with users and external services. Apply a test-driven approach to web development.

## Skills


- Manage website events with JavaScript
- Ensure data quality using data validation and cleaning
- Interact with a web service using JavaScript
- Create a test plan for an application

## Associated courses



### Learn Programming With JavaScript

 Easy


 15 hours

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!



### Write JavaScript for the Web

 Medium

 10 hours

Use your JavaScript skills to build interactive, dynamic web apps. Learn to interact with your users and to leverage external APIs to build rich, immersive user experiences.



## Test Your Website's Interface

Easy

4 hours

Creating tests and applying a test-driven approach are essential for writing reliable code. As a front-end developer, you need to confirm that your application is always usable and does what you want it to do!



## Create Responsive Websites Efficiently With Bootstrap 4

Medium

12 hours

Bootstrap, a popular CSS framework created by Twitter developers, will save you design time and allow you to quickly build attractive, responsive websites! Learn the latest version, Bootstrap 4.

## Project 6 - 50 hours

# Build a Secure API for a Review App

Hot Takes is a new app for customer reviews of specialty hot sauces. Use Node.js, Express, and MongoDB to build its NoSQL database. Secure customer data by applying the OWASP web security standards.

## Skills

- Enable users to interact with a database using CRUD operations
- Implement a data model
- Store data securely using NoSQL

## Associated courses



### Go Full-Stack With Node.js, Express, and MongoDB

 Medium  10 hours

Take your JavaScript skills to the back end with Node, Express, and MongoDB — build everything from secure web services to full-featured APIs, creating tools for front end developers to interact with easily.



### Secure Your Web Application With OWASP

 Medium  10 hours

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.

## Project 7 - 50 hours

# Build a Full-Stack Solution

Analyze a client's needs to define the scope and features of a new application. With the help of a front-end framework, build a full-stack solution, including a SQL database.


## Skills

- Build a full-stack solution
- Store data securely using SQL
- Send personalized content to a client
- Manage a user session

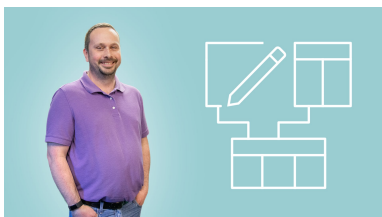
## Associated courses




### Create a Web Application With Vue.js

 Medium  15 hours

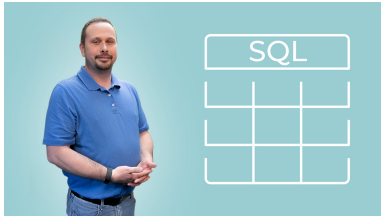
Take your front-end applications to the next level with one of the most popular JavaScript frameworks: Vue.js! Use Vue CLI, Vuex, and reusable Vue components to build powerful apps that can scale and grow.



### Design the Logical Model of Your Relational Database


 Easy  4 hours

Ready to store your application's data? Let's cover the basics of SQL and design the structure of your first relational database with an Entity Relationship Diagram (ERD).



## Implement a Relational Database with SQL

 Easy

 4 hours

Ready to put your database modeling skills to use? Design and build a physical relational database with Structured Query Language (SQL) and learn the tools to manipulate your table data.