

Développement



# JavaScript React Developer

Create website interfaces, styles, and animations like the ones you know and use everyday.



Path duration:  
800 hours



Hired or  
refunded\*\*



Apprenticeship  
duration:  
24 months



Average duration  
of full-time study:  
12 months



Bachelor's-level  
diploma\*

\*Développeur concepteur logiciel - NSF 326t - Level 6 (Eu) 6 (UK) Bachelor's-level diploma (Fr) - filed in the RNCP by ministerial order 10/15/21 officially published on 10/15/21

\*\* Conditions available at <https://openclassrooms.com/en/terms-of-sale>

**OPENCLASSROOMS**

## What is the JavaScript React Developer role?

JavaScript React developers, also known as front-end developers, are in charge of creating **dynamic websites** using a programming language. They take care of the front-end part, i.e. the visual side of the site, unlike the back-end developer. To find out more, you can read this article on developer jobs.

A front-end developer's missions typically entails:

- Understanding the project they're working on to develop the most satisfying features and interfaces for their client.
- Implementing **mockups** with a keen eye for detail and rigorous standards.
- Using best practices to structure **HTML, CSS and Javascript** code.
- Using frameworks such as **React** to build powerful and modular applications.
- Using **tests** to monitor their applications and ensure the highest quality service.
- Providing **technical and functional documentation** of the site for their clients and colleagues.
- **Optimizing** page load time.

## Why take this program?

*"Developer jobs have been growing enormously in recent years. No longer reserved only for digital companies and for men, now all companies need JavaScript Developers for their website, internal tools, mobile apps for marketing, etc... And female developers are in high demand now! It's a job in constant change and that offers many openings to various jobs, some of which do not even exist yet. We are proud to offer this training path, accessible to all, opening the doors to the job of Front-End Developer."*



— Clara Corazza, Head of the Code track at OpenClassrooms

This program was created by our instructional design team. Our pedagogical method is based on the realization of real-world projects and one-on-one, weekly sessions with a professional web development expert as your mentor.

The idea is simple: to learn effectively, it is important to be active in your learning. Within this path, this involves completing projects based on scenarios from the professional world. Your mission: look for solutions, create your deliverables and present them convincingly in front of your mentor! You will be able to directly apply the experience you gain through your OpenClassrooms program in your future workplace.

The training consists of professional projects of increasing complexity. Each project will allow you to acquire specific skills.

## What you will learn

- Setup your development environment.
- Implement a responsive layout with HTML5 and CSS3.
- Ensure the accessibility of a website.
- Create dynamic web applications with Javascript, React and APIs.
- Ensure data quality in a web application through testing.
- Contribute to a code project using agile methodology...

... And much more!

At the end of this training, you will be a full-blown JavaScript React Developer, and earn your European diploma for Software development.

## Salary of a Front-End Developer

Web development can be a lucrative career with many prospects and income growth opportunities opening up as you continue to acquire more experience. Here is what you can expect to earn in your career as a Front-End Web Developer:

### United Kingdom

Beginner: £30,000 - £40,000

2-5 years: £40,000 - £60,000

5+ years: £60,000 +

### United States

Beginner: \$40,000 - \$60,000

2-5 years: \$60,000 - \$80,000

5+ years: \$100,000 +

You will be able to work as a React Developer or Front-End Developer, but also as a Web Developer, or Javascript Developer.

This program can be taken as part of an apprenticeship. For more information, please contact us.

## Career development

You will also be able to quickly ascend towards other developer jobs using Javascript as your primary programming language. For example, you could become a mobile developer using React Native or a Back-End Developer with Node.js.

As a JavaScript developer, you will be able to evolve in several ways, including :

- Diversifying your technical skills to become a full-stack developer, i.e. covering both the back end and the front end.
- By specializing in a particular technology; React in this training but there are plenty of others!
- After a few years of experience and collaborating with many other developers, you may also choose a more managerial role as a Lead Developer or a CTO.

## Prerequisites

You will need to provide a certificate not older than 2 years to demonstrate a minimum level of English B2.

Certificates accepted:

- English Diploma from a secondary institution (private or public) or an accredited higher learning institution
- Linguaskill minimum score: 160
- BULATS minimum score: 60
- TOEIC minimum score: 785
- IELTS minimum score: 6.5
- TOEFL iBT minimum score: 88
- Cambridge FCE / CAE / BEC HIGHER / BEC VANTAGE minimum score or grade: B or 160
- Certificate from a language center demonstrating a minimum level of B2 (including the number of training hours completed and the company signature or stamp)

Don't have one of these certificates? [Find out where to take an exam.](#)

To be eligible to earn this path's diploma, candidates must demonstrate proof of one of the following prerequisites:

- an associate's degree, or equivalent, in computer science, web development, or software development
- **or** a high school/secondary school degree, vocational certificate, or equivalent, and at least 2 years of professional experience in IT, web development, or software development

All other candidates will need to go through a specific admissions process. These candidates must have:

- an associate's degree, or equivalent, in any subject and at least 1 year of professional experience in any field
- **or** a high school/secondary school degree, vocational certificate, or equivalent in any subject and 3 years of professional experience in any field
- **and** a completed placement test consisting of:
  - OpenClassrooms course completion certificates from [Build Your First Web Pages With HTML and CSS](#), [Think like a computer: the logic of programming](#), and [Manage Your Code Project With Git & Github](#)
  - a personal programming project, accompanied by a 10-minute recorded video that explains the project itself and the code behind it

For all candidates, the admissions process starts with a form to validate the aforementioned prerequisites, as well as the alignment between the candidate's professional goals and this path. Any necessary documents for the candidate's application will be collected via this form. If necessary, an individual interview with the candidate will also be organized.

- **Equipment:** Candidates must also have access to a computer (PC or Mac), headphones, a microphone, a webcam, and a good internet connection for mentoring sessions (3.2 Mbps upload and 1.8 Mbps for download). In addition, to master the skills on this path, you will need to:
  - Have at least 8 GB of RAM (16 GB is more comfortable) and 100 GB of storage space available on your computer.
  - Have administrator rights to your computer in order to install required programs.

## 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 JavaScript React Developer path has a series of projects that you'll need to complete one at a time with the support of your mentor. 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 know more about projects? 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.

## Project 1 - 8 hours

# Take Ownership of Your Learning on the Front-End 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!



## Stay Up to Date With Innovations in Your Field

 Easy

 4 hours

Learn how to stay abreast of industry changes, pinpoint areas for professional development, and work more efficiently in the digital age.



## Project 2 - 70 hours

# Turn Mock-ups Into a Web Page with HTML & CSS

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

## Skills


- Integrate web content according to a mockup using HTML & CSS
- Implement a responsive layout

## Associated courses



### Set Up Your Front-End Development Environment

 Easy


 4 hours

The front-end developer, as other jobs, 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!

## Project 3 - 90 hours

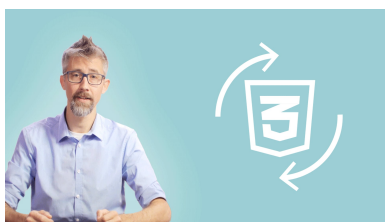
# Integrate a mobile website with animations in CSS

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


## Skills

- Develop a navigation structure for a website
- Implement design effects using CSS & Sass
- Ensure design consistency on a website
- Set up a development environment
- Track a code project with version control on GitHub

## 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!



## Learn the Command Line in Terminal

 Easy


 4 hours

The command line in Terminal is where a lot of programming efficiency happens. Take this course to better communicate with your computer!



## Manage Your Code Project With Git and GitHub

 Easy

 6 hours

Install Git and GitHub and learn basic Git commands to manage your code and deploy your development projects.

## Project 4 - 30 hours

# Build a Landing Page Using Javascript

Get started with Javascript on this gaming company's website, GameOn. In this first programming project, you'll discover how to code with Javascript from scratch.

## Skills

- Program using fundamentals of JavaScript

## 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.

# Skills Checkpoint: Web Languages Proficiency

Test your skills on HTML, CSS and JavaScript language principles and paradigms;

## Skills

- Write HTML, CSS and JavaScript syntax

## Project 6 - 70 hours

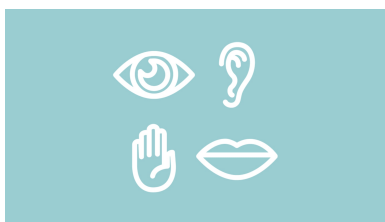
# Create an Accessible Website For a Freelancer Sourcing Platform

Delve into Javascript with Fisheye to build this freelance photographer platform. Be sure your code makes this web app accessible to all.

## Skills


- Manage website events
- Write maintainable JavaScript code
- Develop a modular app with design patterns
- Ensure the accessibility of a website

## Associated courses

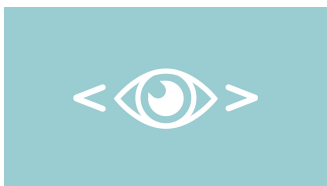


### Make Your Web Content Accessible

 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 7 - 90 hours

# Develop a Search Tool with Bootstrap

Implement a search algorithm for Les Petits Plats, a recipe website. You will use Bootstrap to build the interface and advanced Javascript methods and tools for optimization.

## Skills

- Deconstruct a computational problem
- Develop an algorithm to solve a problem

## Associated courses



### 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.



# Skills Checkpoint: JavaScript Algorithms

Test your skills in Javascript algorithms to be ready for technical tests.

## Skills

- Write Javascript syntax using a programming paradigm

## Project 9 - 60 hours

# Debug and Test an HR SaaS

The expense report app, Billed, is experiencing a handful of bugs. You'll have to fix as well as write new unit and integration tests to detect future problems.

## Skills

- Debug a web application
- Write a manual E2E test plan
- Write integration tests with JavaScript
- Write unit tests with JavaScript

## Project 10 - 50 hours

# Define User Needs for a Tutoring App

A non-profit that tutors children needs your help. Determine their needs and create a plan to tackle them using agile tools such as, User Stories, mock-ups, a Kanban table and use case diagrams.

## Skills

- Identify functional application requirements based on client needs
- Create a mockup for a client
- Manage a code project using agile methodology
- Model a technical solution for a client using domain models

## Associated courses



### Manage your code project



Easy



10 hours

Writing code is great, but you've gotta keep an eye on what you're doing! You'll need to manage your project (whether using Agile, Scrum, or a different workflow) from start to finish in order to hit your deadlines and keep everyone happy.



### Learn About Agile Project Management and Scrum

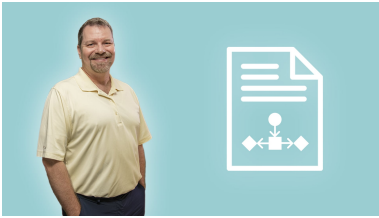


Easy



6 hours

Learn the principles of agile software development. Discover how a Scrum Team plans a Sprint, builds feedback, creates retrospectives, and holds daily stand-ups.



## Create a Business-Focused Client Brief

 Medium  8 hours

To create software architecture, you'll first need to synthesize client needs. Learn to apply structural guidelines, stakeholder management, and agile methodology to interpret and construct an effective functional project brief.



## Create Simple Prototypes With Wireframes

 Medium  15 hours

Use wireframes to communicate how a website or app will work. Diagram user flows to make sure the steps are all in place.



## Apply a Domain-Driven Design Approach to Development

 Easy  4 hours

Use DDD to communicate the technical architecture to the various stakeholders in your project, and learn functional modeling using UML use-case diagrams and class diagrams.

## Project 11 - 60 hours

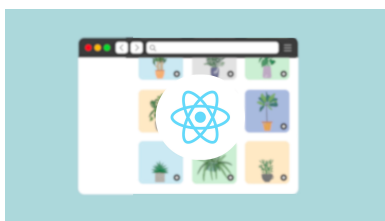
# Develop a Web App with React and React Router

Implement the front end of Kasa, a person-to-person, real estate rental app. For this client, you will create components with React and build the routes of your app with React Router.

## Skills

- Create React components
- Develop the routes of an application with React Router
- Initialize a React web app

## Associated courses



### Create a Web Application With React.js



Medium



8 hours

Discover React.js, the Javascript library that allows you to create apps from components. Learn the basics while using the Create React App tool (CRA) to build a complete web application!



### Intermediate React



Medium



12 hours

It's time to take simple React apps to the next level! In this course, we'll build a single-page application with routing, personalized hooks, and tests.

## Project 12 - 60 hours

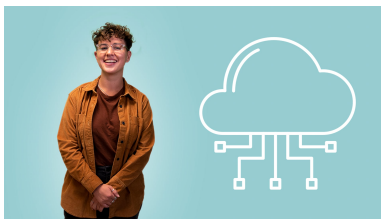
# Develop a Dashboard for Analytics with React

Create the consumer-facing dashboard of a sports analytics platform, SportSee. Build graphs and charts with React and use an API to fetch data.

## Skills


- Develop advanced graphics using libraries
- Ensure data quality in a web application
- Interact with a web service
- Produce technical documentation for a web application

## Associated courses



### Build Your Web Projects With REST APIs

 Easy

 4 hours

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!

# Connect to a Back End with an API Using React

Remede Agency needs you to complete their website's code to communicate with the back end. You'll write REST API calls to connect the front end to the back end of the website and model new API endpoints.

## Skills

- Interact with an API
- Authenticate to a secure API
- Create API models
- Implement a state management system in a React app

# Convert a jQuery Library to React

Help refactor HRnet's website. You will choose a jQuery library and turn it into a React plugin. Use LightHouse to monitor the performance of your new code.

## Skills

- Monitor the performance of a web app
- Code in JavaScript with functional programming
- Deploy a front-end web app
- Refactor an application to reduce technical debt





# alternance

OpenClassrooms, 1<sup>ère</sup> école en ligne  
à proposer des formations diplômantes

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L'alternance en ligne permet à l'entreprise et à l'étudiant de trouver le **meilleur rythme** adapté à leurs besoins respectifs.

# Côté étudiant :

## une formation diplômante et 100% financée

L'alternance est une modalité de formation qui mêle acquisition des connaissances (en ligne) et des compétences (en entreprise).

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### Comment se déroule un parcours en alternance OpenClassrooms ?

- Après avoir choisi le parcours de formation qui lui convient, **l'étudiant bénéficie d'un accompagnement gratuit de 2 mois pour trouver son entreprise.**
- La formation peut se réaliser en contrat de professionnalisation ou d'apprentissage. Rendez-vous à la page suivante pour savoir lequel choisir !

### Est ce que la formation en alternance a un coût pour l'étudiant ?

- La formation en alternance est gratuite ! Une rémunération est également prévue : jusqu'à 100% du SMIC en fonction de votre âge et de votre année de formation.
- Pour se lancer, une seule adresse : [openclassrooms.com/fr/apprenticeship](https://openclassrooms.com/fr/apprenticeship)

# Côté entreprise :

## l'accès à des profils qualifiés toute l'année, en toute simplicité !

OpenClassrooms est la 1ère école en ligne à proposer des **formations en alternance, aux titres reconnus par l'État** de niveau Bac+2 à Bac+5, sur des **métiers en tension, très recherchés par les recruteurs**. Les formations en alternance **peuvent être financées, soit par la taxe d'apprentissage, soit par les OPCO (Opérateurs de Compétences)**.

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### Comment lancer des parcours d'alternance au sein de l'entreprise ?

- Pour chercher des profils à recruter en alternance ou lancer le recrutement d'un étudiant déjà identifié, n'hésitez pas à contacter :

[job.placement@openclassrooms.com](mailto:job.placement@openclassrooms.com)

- Les équipes d'OpenClassrooms vous accompagnent à chaque étape d'une démarche d'alternance, du dossier de financement au suivi de vos alternants.

### Quand peut-on lancer une démarche d'alternance au sein de l'entreprise ?

- À tout moment : le contrat peut démarrer tout au long de l'année, il n'y a pas de date de rentrée imposée.



# Pourquoi l'alternance en ligne ?

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Les avantages de l'alternance OpenClassrooms sont nombreux : **date de début flexible, formations créées par des experts métiers, accompagnement personnalisé, formation financée...**

## **1. Gratuite pour l'étudiant et financée pour l'entreprise**

La formation en alternance est gratuite pour l'étudiant et financée par l'OPCO de son entreprise pour les contrats éligibles. Dans certains cas, l'entreprise complète le financement si besoin. En parallèle l'alternant perçoit aussi son salaire.

## **2. Flexible et adaptée aux besoins de l'étudiant et de l'entreprise**

Le contrat peut démarrer à tout moment de l'année et les jours dédiés à la formation sont flexibles en fonction de l'organisation de l'étudiant et de l'entreprise. Le rythme d'alternance prévoit 3 ou 4 jours en entreprise par semaine.

## **3. Une formation conçue pour une application directe en entreprise**

Nos formations sont conçues par et pour l'entreprise, pour des métiers recherchés. Elles sont également certifiantes, avec des certifications inscrites au RNCP (Répertoire national des certifications professionnelles), reconnues par l'État.

## **4. Un accompagnement dédié à chaque étape**

Pour les entreprises, des profils d'étudiants disponibles et présélectionnés par nos experts pour répondre à vos besoins en recrutement dans toute la France.

Pour l'étudiant, un accompagnement par nos conseillers pédagogiques à chaque étape de l'alternance et un point de suivi hebdomadaire par un mentor individuel.



# Tout savoir sur les contrats d'alternance

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Une question ? Un projet ?

Contacter : [job.placement@openclassrooms.com](mailto:job.placement@openclassrooms.com)

# Contrat de professionnalisation

**1 jour en formation / 4 jours en entreprise.**

- L'entreprise embauche l'étudiant en CDD sur 12 ou 24 mois (selon le parcours de formation).
- La formation est financée par un OPCO. OpenClassrooms est référencé dans les principaux OPCO grâce à ses titres certifiés et sa certification Datadock.
- L'entreprise fait la démarche de demande de prise en charge auprès de son OPCO. Nos équipes sont présentes à chaque étape pour l'accompagner.
- L'étudiant est rémunéré **sur une base qui va de 65% à 100% du SMIC** (pour un étudiant de plus de 26 ans).
- Si l'étudiant a plus de 26 ans et est demandeur d'emploi, Pôle Emploi octroie une aide à l'emploi à l'entreprise.

# Contrat d'apprentissage

**2 jours en formation / 3 jours en entreprise.**

- L'étudiant est embauché sur 12 ou 24 mois selon sa formation.
- Le contrat d'apprentissage concerne les personnes de 16 à 29 ans révolus (sans limite d'âge pour les publics RQTH, mais aussi les créateurs d'entreprise, les sportifs de haut niveau et l'encadrement de haut niveau).
- Le contrat d'apprentissage peut être signé par les employeurs dans le secteur public et les entreprises privées.
- La formation est **100% financée grâce à la taxe d'apprentissage** pour les entreprises du secteur privé. Pour le secteur public, une convention financière est établie entre OpenClassrooms et l'employeur.
- Une rémunération de l'apprenti est prévue : jusqu'à 100% du SMIC en fonction de son âge et de l'année de sa formation.
- Notre CFA vous accompagne dans toutes les démarches administratives concernant la mise en place de contrat d'apprentissage.