

Développement



# Android Developer

Build Android apps for the billions of people on Android, the most widely-used mobile system worldwide.



Path duration:  
630 hours



Job guarantee\*\*



Apprenticeship  
duration:  
24 months



Average duration  
of full-time study:  
12 months



Bachelor's-level  
diploma\*

\*Web developer (Développeur(euse) d'application) - NSF 326t - Level 6 (Eu) 6 (UK) Bachelor's-level diploma (Fr) - filed in the RNCP by ministerial order 9/26/16 officially published on 10/4/16

\*\* 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 a one-year bachelor's-level diploma in development, which you can complete entirely online with the help of a dedicated mentor.

In this path, you'll study Android development. Android developers build mobile applications on the most widely-used mobile platform in the world. You guessed it: **Android!** They build apps that run on both smartphones and tablets and can even run on Android smartphones or TVs.

Android is a **mobile operating system** created by **Google**. You may also have heard of its main competitor: iOS, which is made by Apple. Android is similar in terms of functionality but looks different and runs on different types of phones.

An Android developer:

- Builds mobile applications on the Android operating system
- Writes clean, well-structured code
- Writes unit and integration tests for their code
- Takes project briefs from clients and builds apps based on those needs
- And more!

## How much will I earn?

Android developers, whether they work in Java or Kotlin, can be well-paid because the industry lacks specialized developers in this field.

As an Android developer, you'll be able to earn:

United States

- Beginner: \$60,000 - \$80,000
- More experienced: \$80,000 - \$120,000+
- Freelance: \$30 - \$150/hour

United Kingdom

- Beginner: £35,000 - £45,000
- More experienced: £45,000 - £60,000+
- Freelance: £20 - £130/hour

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

## What are my job prospects?

Android developers are actively recruited by every kind of company, from startups to big companies. Google products are widely used in almost every industry, and no company that ventures into web or mobile services would be able to do so fully without building Android applications, as Android is the most widely-used mobile platform in the world.

Find Android development job offers on [Indeed](#).

## Who is eligible to enroll?

This path is accessible to all, but here are some recommendations:

- A high school diploma / GCSE level
- 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 connection
- Ideally an Android smartphone.
- Have administrator rights to your computer in order to install required programs.

To earn the diploma, you'll need to complete all projects and have them evaluated by your mentors. Your work will then be evaluated by a jury composed of professionals. Follow the courses offered in the path to prepare yourself for the projects.

## What will I learn?

- Create Android applications based on Java and the development environment Android Studio
- Communicate with a database to store and retrieve information
- Write unit and integration tests, as well as interface tests
- Produce technical and functional documentation of an application
- Use a network to retrieve information
- Understand and apply *Design Patterns* to ensure application stability
- Analyze a project brief and choose a technical solution
- Create technical architecture using UML diagrams
- Respect Material Design recommendations in order to provide the best user experience possible

## 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.

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 - 10 hours

# Learn how to learn!

You're embarking on a great learning journey! Equip yourself with the tools and mentalities you'll need throughout your courses and projects.

## Skills

- Create and update your CV or resume
- Set clear goals

## Associated courses



### 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!



### 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!

## Project 2 - 10 hours

# Survey the technology landscape

Create your own dashboard to stay up to date on all the latest and greatest tech happenings!

## Skills

- Set up a system for staying up to date with technology
- Identify tools and resources for staying up to date with technology

## Associated courses



### 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 3 - 80 hours

# Analyze a client's needs for their film festival

Learn how to translate the needs of a client into a clear, attainable solution!

## Skills

- List functionalities requested by the client
- Detail project specifications
- Choose an appropriate technical solution
- Write a project brief

## 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.



### 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.



## Breakdown and integrate a mockup

 Medium  6 hours

Web developers should be able to break down the mockups they receive from designers. How can they integrate these designs in HTML and CSS?



## Project 4 - 80 hours

# Analyze the needs of your client for their group of pizzerias

A client has asked you to create a technical system for their pizzeria. It's up to you to imagine and map out this solution!

## Skills

- Choose an appropriate technical solution
- Collect and analyze the needs of a customer
- Detail project specifications
- List functionalities requested by the client

## Project 5 - 90 hours

# Design a pizzeria's technical management system

OC Pizza has asked for your help designing a technical solution for pizza orders. Build a database to help them keep track of pizza orders and more!

## Skills

- Create technical architecture using UML diagrams
- Describe basic UML concepts
- Set up a first database
- Use a schema when designing a database
- Design a database schema

## Project 6 - 80 hours

# Track your daily mood

Build your first Android app to track your daily mood (happy days, here we come)!

## Skills

- Debug Android code
- Install and use an external library
- Launch an application on the emulator or on real equipment
- Master the life cycle of an application and its components
- Respect Industry Standard development practices
- Use the Android Studio environment
- Write a Java unit test
- Develop an application offering the features expected by the client
- Select the appropriate programming languages for the development of the application

## Associated courses



### Learn programming with Java

 Easy  15 hours

Find out how rewarding programming can be! In this course, you'll learn the principles of object-oriented programming, get hands-on practice with interactive exercises, and start your very own app!



### Develop Your First Android Application

 Easy  20 hours

Get ready to build your first Android app: TopQuiz! Along the way, you'll learn the fundamentals of Android development: architecture, screen design, and all the tools you'll need to build your own applications.

## Project 7 - 80 hours

# Stay up to date with the news

Let an Android application keep you up on the latest global and local happenings.

## Skills

- Use widgets for user interactions
- Write an Android unit test
- Write an interface unit test
- Implement integration tests
- Implement unit tests
- Produce a test execution report
- Provide a fix when suggested by the test execution report
- Access remote data
- Architect a user interface in XML
- Program and run a background task
- Save user preferences

## Associated courses



### Develop robust and reliable Android applications in Java

 Medium  30 hours

Create unit tests to minimize bugs. Your mobile apps will be reliable and you'll make your users happy.



## Integrate remote data into your app

 Hard  20 hours

An Android app is designed to communicate. Learn how to use an API to optimally download data and how to display various data in a list format.



## Create a Flexible and Adaptive User Interface in Android with Java

 Medium  20 hours

To guarantee the best possible user experience via tablette or smartphone, learn how to use the different navigation and display mechanisms proposed by Android.



## Learn Kotlin

 Medium  12 hours

What's the new programming language that's taking over Android development? Dive into this course and get hands on practice working with Kotlin! With a step by step comparison with Java, you'll work with Kotlin classes, extensions, lambdas, and more!



## Build Your Web Projects With REST APIs

 Easy  4 hours

Learn how to enrich your web projects with REST and RESTful APIs! You'll be able to access other services' data that can then be integrated into your own applications. APIs will bring a whole new dimension to your software!

## Project 8 - 80 hours

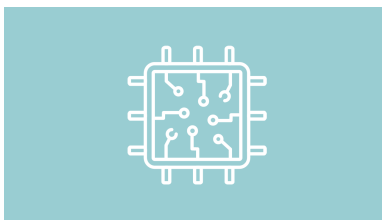
# Go out to lunch!

Lunch with coworkers is always fun, but make it better by creating an app that lets everyone agree on a restaurant!

## Skills

- Create, manage, and show interface fragments
- Define and apply a global theme
- Show a data list with RecyclerView and an Adapter
- Show content in multiple languages
- Modify an existing Android project
- Configure settings of an Android project
- Create and show a menu

## Associated courses



### Create a scalable and powerful backend for Android using Firebase in Java

 Medium  20 hours

Save your application data and place structured data in a database.

## Project 9 - 100 hours

# Become a real estate (app) mogul

Build an Android app to manage real estate listings (and maybe find your dream home).

## Skills

- Complete a suite of unit and integration tests to reflect changes made
- Correct application errors reported by a client
- Share content with third party applications
- Make improvements to existing functionalities as requested by a client
- Store and retrieve information within a database using SQL
- Create and configure a SQLite database
- Create a personalized view
- Manage and show notification messages
- Personalize a toolbar

## Associated courses



### Manage your data to have a 100% offline Android app in Kotlin

 Hard  8 hours

Discover different ways of saving data on Android using Kotlin! Save data in a phone's memory by using a performant relational database and ensure that your users can use their apps in offline mode.

## Project 10 - 20 hours

# Document and manage a pizzeria

You designed a system for a pizzeria to manage its orders and more (yum!). Now, write its documentation.

## Skills

- Read and generate online documentation
- Write documentation destined for non-technical users





# alternance

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

---

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).

---

### 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)**.

---

### 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.



## 1. Une formation gratuite pour l'étudiant et financée pour l'entreprise

- La formation est gratuite.
- Dans le cadre d'un **contrat de professionnalisation, elle est 100% financée** par votre OPCO.
- Dans le cadre d'un **contrat d'apprentissage**, elle est financée par la taxe d'apprentissage que paient les entreprises privées.

## 3. Une formation de qualité, conçue pour une application directe au sein de l'entreprise.

- Les formations OpenClassrooms sont **professionnalisantes**. Elles sont conçues par et pour l'entreprise, sur des métiers recherchés.
- Les formations OpenClassrooms sont de qualité, avec des **diplômes inscrits au RNCP** (Répertoire National des Certifications Professionnelles) et dont les niveaux sont reconnus par l'État.
- Une plateforme collaborative favorise les échanges entre apprentis et aide à la recherche d'emploi.
- Des espaces de coworking sont proposés dans toute la France.

## 2. Une solution flexible, adaptée aux besoins de l'étudiant et de l'entreprise

- Le contrat peut démarrer **à tout moment de l'année**.
- Il est possible de faire soit un contrat de professionnalisation, soit un contrat d'apprentissage.
- Le(s) **jour(s)** dédié(s) à la **formation** est (sont) **flexible(s)** en fonction de l'organisation de l'étudiant et de l'entreprise.

## 4. Un accompagnement dédié à chaque étape, pour l'étudiant comme pour l'entreprise

- Des **profils d'étudiants disponibles et pré-sélectionnés par nos experts pour répondre à vos besoins en recrutement sur toute la France**.
- Un accompagnement par nos conseillers pédagogiques **à chaque étape de l'alternance**.
- Un point de suivi hebdomadaire par un **mentor individuel** pour **motiver l'étudiant et l'accompagner** pendant toute sa formation.



# 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.