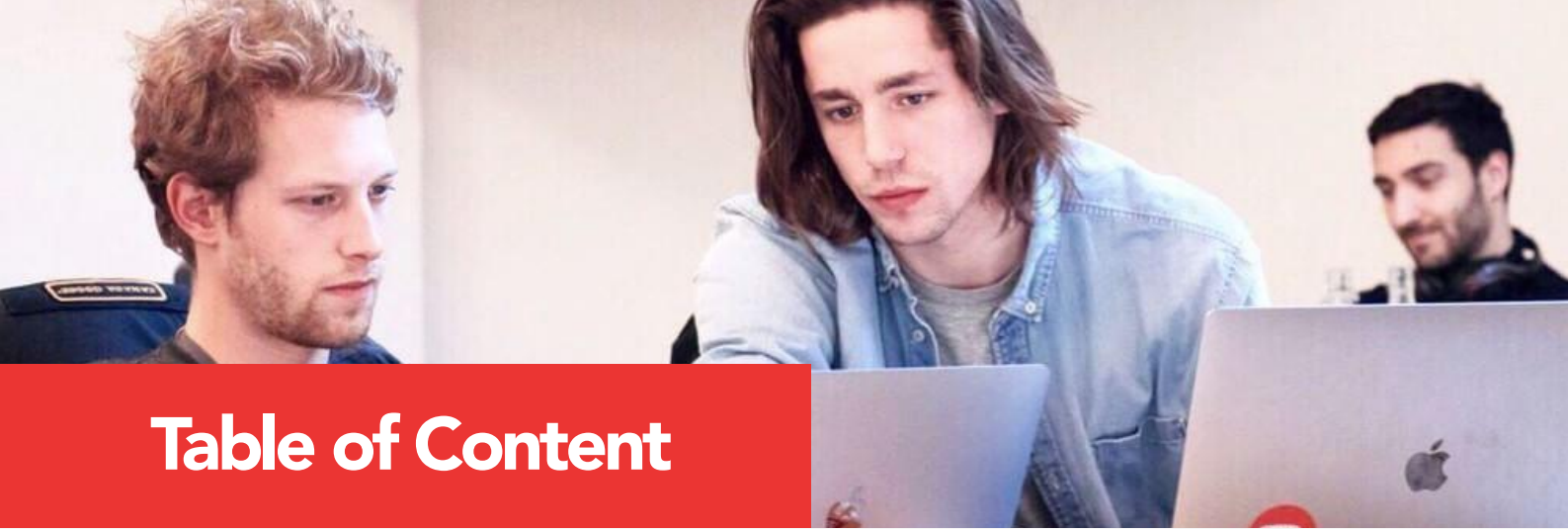




# FullStack Program

Learn to code in 9 weeks





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A photograph showing a man in a dark blue t-shirt standing and presenting to a group of students. He is holding a laptop on a stand. The students are seated in the foreground, looking towards him. The background is a brick wall with a potted plant.

# Overview

## PRODUCT FIRST

Le Wagon is a very **product-driven program** teaching the core concepts of programming and web development. During the course, our students learn how to **build robust and beautiful web applications** by themselves, **collaborate within a team of developers** and **adopt the technical workflow** followed by successful startups.

## THINK LIKE A DEVELOPER

Aside technical skills, our students also learn how to **think and solve problems like a developer** by breaking complex problems into smaller ones. By the end of the course, they are able to **learn a new programming language or framework by themselves**, which is extremely important in the fast-paced environment of web-development.

## A LIFETIME COMMUNITY

After the bootcamp, our students keep a **lifetime access to our online platform** with up-to-date videos and tutorials about the latest tools and best practices of software development. They also belong to a very **engaged community and network of international talents and teachers** who keep helping each other and sharing opportunities almost every day.

## SUCCESSFUL GRADUATES

More than 2,700 alumni have graduated from Le Wagon. Many of our graduates have joined **tech companies** as developers or product managers. A lot of them also have started a career as **freelancers** or **launched their startup** and raised up to \$5M.





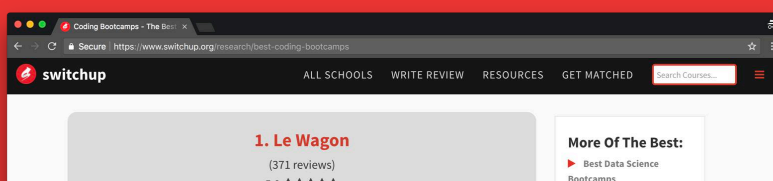
# What you will learn

We've been teaching people how to code **since 2013** and are committed to excellence. In 9 weeks, you will be able to:

- ✓ Understand the **core concepts of object-oriented programming**;
- ✓ Structure your software following design patterns like **MVC**;
- ✓ Integrate a 3rd service using an **API** or **scrape HTML data**;
- ✓ Design a **relational database** and build queries with **SQL**;
- ✓ Elaborate your UI (User Interface) following **atomic design** framework.
- ✓ Code a CSS library using recent techniques like **flexbox** or **CSS grid**;
- ✓ Learn **ES6** (latest version of JS) as a second programming language;
- ✓ Adopt the right workflow: design your project's **wireframe & mockup**, test your UX with a **prototype**, split your **user stories** across your team and collaborate with **branch** and **pull requests** with git and Github;
- ✓ Discover **TDD (Test Driven Development)** and learn how to cover your application's code with unit tests;

## 1st Coding Bootcamp

Le Wagon has been ranked 1st coding bootcamp in the world on Switchup in both 2017 and 2018



# Our Product Mindset

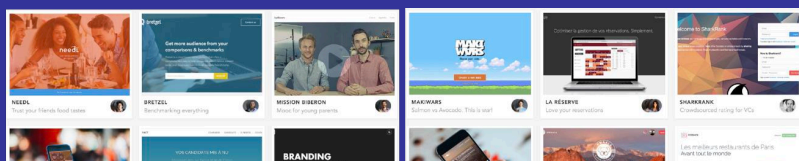
We have helped our 2700 graduates build more than 500 final projects. We think that being a great developer isn't only about knowing how to code. It is also about mastering **all the skills that are needed to build a tech product**:

- ✓ **Engineering skills** to design your database and your software.
- ✓ **UX Design skills** to build features your users actually want.
- ✓ **UI Design Skills** to make your interface intuitive.
- ✓ **Graphic Design skills** to make your product look nice.
- ✓ **Analytics skills** to keep track of your users' behaviour.
- ✓ **Collaboration skills** to work in a tech team with the correct workflow.

The art of code is at the crossroads of all these skills.  
**This is what makes code fascinating!**

## 500+ Products Developed

Le Wagon has helped students build 500+ products  
<http://lewagon.com/demoday>



# Our Alumni

Learning how to code tech products can lead to **different paths**.  
After Le Wagon, our 2700+ alumni have:



Become **fullstack developers, software engineers** or **product managers** for the best tech companies (Google, Uber, Blablacar, Algolia, Trainline, etc...)



Kickstarted their career as **dev freelancers working from wherever they want**, or teaching in any of our 27 worldwide campuses.



**Validated their market by coding their first MVP as entrepreneurs** to accelerate their growth, raise money and collaborate efficiently with their future dev team.



“

The way Le Wagon teaches you code and the product mindset they give you is really making a lot of difference when you apply for a developer's position.

Jean Anquetil

FULLSTACK DEVELOPER, **DRIVY**



# MEET OUR ALUMNI

They became fullstack developers, product managers, dev freelancers.

## CHRISTOS DIMITROULAS

**FullStack Developer at Headstart**

Christos joined a YC S17 startup as fullstack developer and is now programming with Node.js. He had no issue to switch from ruby to javascript as he understood the core concepts of software development.



## GREGOIRE CHARLES

**Product Manager at Talent.io**

Gregoire learnt programming to be a better Product Manager and work more efficiently with the developers' team, understanding their tech workflow, and being able to split a task in detailed user stories.



## LOLA BARBIER

**Freelance Web Developer**

From copywriter to web developer, Lola now works on various freelance missions. She always help her clients define what they want before jumping into the code. That's how you code useful features.



# Detailed Curriculum

Our bootcamp is structured in **3 core phases**. Our students also have to complete a preparation work to be ready for the 9 week bootcamp.

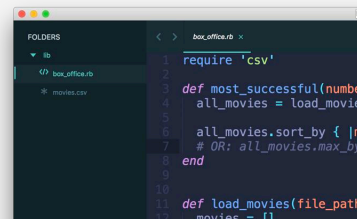
## PHASE 0 - PREPWORK - ~40h of work

Prepare yourself to start the FullStack program.



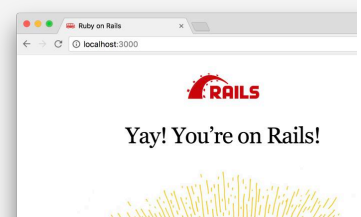
## PHASE 1 - FOUNDATIONS - 3.5 weeks

Learn the core concepts of programming, software architecture and relational database.



## PHASE 2 - WEB DEVELOPMENT - 3.5 weeks

Learn UI Design, front-end development and code your web applications with Ruby on Rails.



## PHASE 3 - FINAL PROJECTS - 2 weeks

Invent, design, code, deploy and pitch personal projects in teams.





## PHASE 0 - PREPWORK - ~40 hours of work

Get ready to start the bootcamp

The FullStack program is very intense. To save time and nail it from the beginning, our students must complete some prepwork on a custom platform before starting the bootcamp. This work takes 30 to 40 hours and gives them basic knowledge of:

Web 101, how the web works.

Terminal basic commands

Git basic commands

HTML / CSS foundations

Javascript foundations

General knowledge about tech workflow in a startup

Prepwork enables our students to understand basic notions beforehand, through a clear introductory course. It facilitates the learning process for when we cover these concepts in detail during the program.



“

They focus on teaching you the core skills you need to learn to code so that you can continue to learn quickly and effectively after the course. It really gave me strong foundations to apply for tech jobs.

Rafael Millán

BACKEND DEVELOPER, **TRAINLINE**

## **PHASE 1 - FOUNDATIONS** - 3.5 weeks

Learn the core concepts of programming, software architecture and relational database.

### **>\_ DEVELOPER SETUP** - 1st day

Install a professional developer's environment and be ready to nail it for the 9 weeks

- Command line basics**

- Create, update, delete files/folders from command line**

- Navigate in a file system**

- Install Ruby and a Version Management tool**

- Must-have developer's packages**

- Version control with git**

- Commit and push on Github**



### **PROGRAMMING BASICS** - 1 week

Write algorithms manipulating variables, loops, conditions and data structures like Array and Hash. Parse and store data from standards files (CSV, JSON, XML, HTML).

- Core concepts of programming**

- Ruby doc for built-in classes**

- Algorithms & data structures (Array, Hash)**

- Text patterns' detection with Regular Expressions**

- Parsing & storing data in standard files (JSON, CSV, XML)**

- Web scraping with Nokogiri**

- Request and parse data from RESTful JSON APIs.**



## SOFTWARE ARCHITECTURE - 1.5 week

Structure your code with different classes following Object-Oriented principles. Same as an architect designing a building, a developer must respect patterns when designing a software.

**Core concepts of Object-Oriented programming.**

**Classes, objects and instance variables**

**Instance and class methods, Inheritance**

**Public vs. Private Interfaces.**

**Routing users' requests**

**Simulating a database with CSV files.**

**In-depth understanding of MVC (Model View Controller)**



## RELATIONAL DATABASE, SQL & ORM - 1 week

Softwares need to store information in a database. Without a database, Facebook would not persist users' data. Learn to design a relational database and build structured queries to your database with SQL.

**Database Schema Design & SQL**

**One-to-many, many-to-many relations and join table**

**CRUD in SQL (Create, Read, Update, Delete)**

**Advanced JOIN queries**

**Connecting your DB to ruby with an ORM (Object Relational Mapping).**

**Active Record Basics: migrations & naming convention**

**Active Record Advanced: associations & validation**



The curriculum at Le Wagon is really first class. They've found a way to teach you all of the important practical skills you'll need to make a web application, while cutting out unnecessary concepts.

Aoife McDaid

SOFTWARE ENGINEER, **ALGOLIA**



## PHASE 2 - WEB DEVELOPMENT - 3.5 weeks

Learn UI Design, front-end development and code your web applications with Ruby on Rails.

### BUILDING WEB INTERFACES

Elaborate your UI with atomic design and code beautiful components & layouts by applying the latest CSS techniques.

Product Design, UX & UI principles.

HTML (tags, id, classes, attributes, overall structure of HTML pages).

CSS (selectors, properties, stylesheets' organization).

Atomic design principles.

Web-design tips for components & layouts.

CSS techniques with flexbox & CSS grid.

CSS media queries for Adaptive Design

Bootstrap basics & Responsive Grid System

ES6

### ES6, THE LATEST JAVASCRIPT VERSION

Learn ES6, your second programming language after ruby, to add dynamic behaviors to your website or update pages without reloading thanks to AJAX.

JavaScript fundamentals.

ES6 and differences with ES5.

JavaScript Tooling (Babel, Webpack, yarn).

DOM Events & AJAX.

Learn a second programming language after ruby



## WRAPPING ALL TOGETHER WITH RAILS

Wrap it all together by coding your first Ruby on Rails applications. Deploy your applications in production & start coding “the Rails way”.

**MVC in Rails: Routing, Controllers, Params & Views**

**Models & CRUD in Rails**

**Adding gems to your project**

**ERB: Layouts, Partials and Helpers**

**Nested Resources and Namespaces**

**Refactoring an app with Services**

**Defining a Rails API**



## BUILDING AIRBNB IN TEAMS

Code a clone of Airbnb from scratch in 5 days. You will work in teams to learn to collaborate on Github using pull requests and deploy your apps on Heroku, using the same workflow as successful startups.

**Collaborating on a Rails app with Git and Github**

**Testing in Rails with Rspec**

**Authentication with Devise**

**Omniauth and 3rd services' login (FB, LinkedIn, Spotify...)**

**Users' authorization**

**Search in Rails**

**Payment, Mailing, Geocoding and Maps**

**Background Jobs with Sidekiq**

**Image upload with Cloudinary & Continuous Deployment with Heroku**



I still can't believe I achieve this in only 9 weeks. Cherry on top, I can go back to Le Wagon whenever I have a bit of spare time and can still enjoy the atmosphere of this incredible place where people believed in me.

Manou Febvret

FRONTEND DEVELOPER, **AIRCALL**

## PHASE 3 - FINAL PROJECTS - 2 weeks

Invent, design, code, deploy and pitch personal projects in teams.

Projects Phase is the ultimate experience of the program: invent, pitch, design, code and deploy an original project in teams of 3 or 4 people during the two final weeks.

Product's target and unique value proposition

Prototyping on Figma to test your UX

Splitting work into user stories

Coding an original web app from scratch: from back-end to user-interface

Deploy your app on a production environment

Pitch your web-app in a public graduation ceremony

Check 500+ demos on <http://lewagon.com/demoday>



“

The curriculum is fantastic. Le Wagon runs their education much like a software product. They design, build, test, and refine ensuring that their education is current and continually optimized for the students.

Raphaëlle Coudin

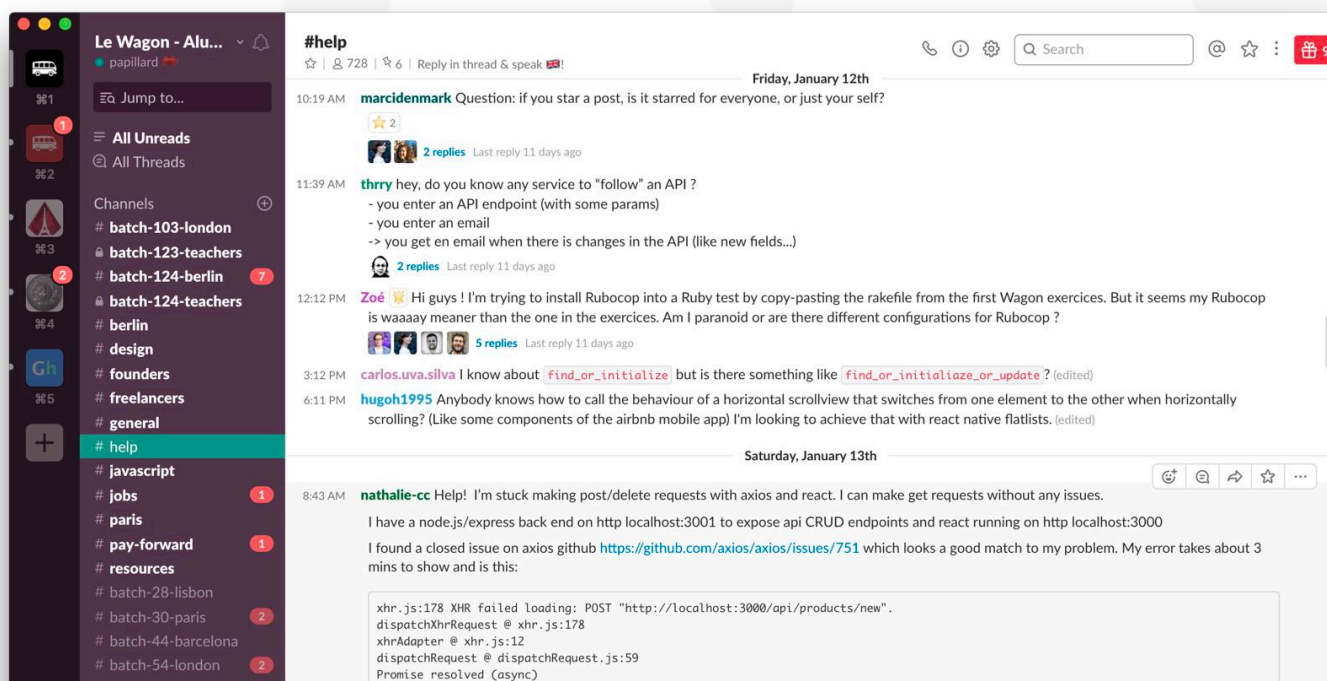
PRODUCT MANAGER, **JOB TEASER**



# Our Community

More than **2700+ creative alumni** with various backgrounds (business professionals, engineers, entrepreneurs, freelancers, designers..) coming from **30+ countries** are chatting every day on Slack, questioning Le Wagon's teachers, sharing tips, resources, code gists, job offers and news from their products. One of the best tech communities in the world.

Check our Slack to get a taste of it 👉

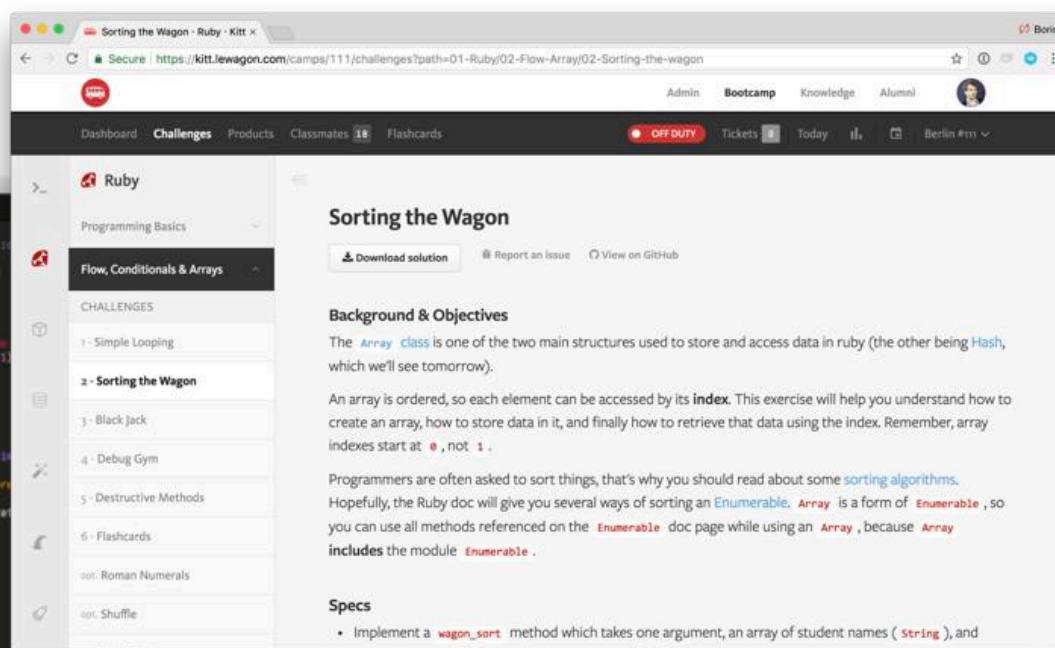


# Our Platform

We warned you, **we are serious about product!** That's why we've developed and iterated on the best platform we could imagine for our students:

- ✓ **300+ challenges**
- ✓ **45 video lectures of 1h30** to re-watch any time after the bootcamp
- ✓ **100+ live-codes** and tutorials on real-life examples
- ✓ **900+ flashcards** to rehearse core concepts
- ✓ **Life-time access** to the platform and all future resources & tutorials

All this content has been developed thoroughly by Le Wagon's teachers **for the last 4 years, batch after batch, students' feedback after students' feedback.** We believe a great course demands lots of iterations and refinements.





# Alumni Jobs

Our alumni now work for the best tech companies as product managers or developers. Recruiters all love the "Product know-how" of our graduates.

Google

amazon



stripe

Bla Bla Car

front



Doctolib

talent.io



heetch

{A}

drivy

trainline



happn



aircall

Algolia



FINEXKAP

COMPASS

BRANDCELEBRITIES



Clustree



SCALR  
CLOUD MANAGEMENT

agorize



KissKiss  
Bank Bank

weroom

Molotov.TV

EVENT  
CORNER



af83

instantly

Kudoz

FINALCAD

Rue89



“

Their curriculum is extremely fine tuned and we can feel that there has been a lot of iterations to reach such a level. You're extremely challenged without feeling drowned under too much information.

Quitterie Mathelin-Moreau  
COFOUNDER CEO, Skello















# Alumni Startups

Le Wagon's community is also a strong network of entrepreneurs. More than 100 startups have been launched by Le Wagon alumni, 30 of them having successfully raised funding to this day.

- ✓ **15+ alumni** have raised between \$1.5m and \$5m
- ✓ **20+ alumni** have raised between \$300,000 and \$1m each
- ✓ **100+ active startups** have been launched by Le Wagon alumni
- ✓ **50% of the founders** meet each other during the bootcamp

Successful companies that have emerged from Le Wagon include **Destygo Workelo**, **Regaind** (acquired by Apple), **Travelsify**, **Side.co**, **Plato**, **Scalia A-line**, **Kudoz** and many more startups

 <b>PLATO</b>	\$3M	 <b>A line</b>	\$1.5M	 <b>TRAVELSIFY</b> <small>the travel genome project</small>	\$2M
 <b>skello</b>	\$500K	 <b>medGo</b>	\$1M	 <b>ecov</b>	\$1M
 <b>Kudoz</b>	acquired by Le Bon Coin	 <b>SERAPHIN</b>	\$1.2M	 <b>MedPics</b>	\$300K
 <b>fluicity</b>	\$1M	 <b>destygo</b>	\$1M	 <b>REGAIND</b>	acquired by Apple

“

The program gave me exactly what I was looking for: an intensive ruby and rails course, best practices and tools, cool front-end tips, to be able to build a first version of any basic product I had in mind in about 2 weeks.

William Pollet

COFOUNDER CTO, **PLATO**

# FAQ

All you need to know before applying to our FullStack Program

## COST

### **What are the tuition fees?**

You can find prices at the bottom of the apply form for each city you are interested in. Price may vary depending on the location and its cost of living.

### **Are there any scholarships available?**

Unfortunately there isn't. The bootcamp tuition is to be paid in three instalments though.

### **What payment plans do you offer? How many instalments and on which schedule?**

The bootcamp is to be paid in two or three instalments depending on the city's legal requirements. Please reach out to the local City Manager she/he'll be happy to share any specificities on this matter.

## APPLICATION

### **What's the application process to become a student of Le Wagon?**

Once you've submitted the application form on our website, you will receive an email with a few additional questions about your expectations and technical skills. From this point, we will schedule an interview (Skype or on-site) after which we will tell you very quickly if you have been selected. We also recommend you to start working on the Ruby track on CodeCademy as soon as possible, as you will have to complete this track before being accepted.

### **Is there any preparatory work before the start of the bootcamp?**

Yes, you have to complete the Ruby track on Codecademy before being accepted on the course. You will need between 9 and 15 hours and this step is absolutely mandatory. If you are selected, you will have some additional prepwork to complete on Le Wagon's prepwork platform.

### **Is it possible to join a waiting list?**

People abandoning ship once they have been accepted on the course are very rare but if it happens, we will reach out to you! However you will need to go through the application process before being accepted.



### **How should I choose the city in which to do the bootcamp?**

Le Wagon fulfils exactly the same mission in all of our locations. The curriculum is the same everywhere as are all of our materials (lectures and exercises). Teachers and teaching assistants are hired and trained in the same way all around the globe. Our advice to help choosing a city would be :

- Target a country where you want to build something: either take part in its tech community or find a job
- Quality of life: can I afford it ? Would I like the climate ? etc.
- Language: check the language in which the bootcamp is actually done (in Brazil the lectures are actually in Portuguese, in France the bootcamp is in French, etc.)

### **Do you help international student to get a VISA?**

Unfortunately we do not provide assistance for VISA. Depending on your situation and where you would want to do the bootcamp, you could potentially attend Le Wagon on a simple tourist VISA. However, you should always check if it's the case with your embassy.

### **Do you know when the next session will be?**

We usually open applications 4 to 5 months in advance. Feel free to reach out to the local city manager. She/He will gladly answer all of your questions and contact you as soon as we open the applications for the upcoming batch.

## **STUDENT PROFILE**

### **I don't have any technical background, is it the right program for me?**

Of course. We expect 3 things from our students: be motivated (very motivated), be curious, be social. That's it!

### **Is there a typical profile for a Le Wagon student?**

Absolutely not. Our alumni are between 18 and 55, they all share the same curiosity and enthusiasm for coding. They all come from various background: studying, marketing, engineering, sales, lawyers, journalists, architects, musicians... Spending 9 weeks at Le Wagon is not only an incredible human experience, it also helps you build an astonishing network for your after-bootcamp life!

### **I'm under 18 years old, can I apply?**

You need to be 18 to enroll for the course. However you can apply if you are 17 as long as you turn 18 before the start of the bootcamp.





### **I'm over 40 years old, should I apply?**

We have had student over 40 in the past and they succeeded in finishing the bootcamp and learning web development. Regarding the recruitment process to get onboard, it only depends on your commitment and your motivation.

### **I don't currently have an idea of a project to work on. Is it a problem?**

Don't worry about it! Students with a project are invited to pitch their idea during the bootcamp while people without one are welcome to team up with them. However if you only apply to Le Wagon to get a head start on your own project during the last 2 weeks then you've misunderstood the real purpose of the end of our program. The real goal is to learn how to work as a team and improve your Rails skills while building a product. Even if don't get enough votes to work on your project, cheer up! The good news is you will be able to code your idea in total autonomy after Le Wagon!

### **Should I bring my laptop?**

Yes, each student must have a laptop. You'll need Mac OS X or Linux, but if you only have Windows, no worries you'll learn how to install Linux the first day.

### **What language do I need to speak?**

**In most of our cities, courses are given in English!** In France, lectures are given in French and in some other cities (São Paulo, Shanghai, Chengdu, Tokyo) specific sessions are organized in other languages (brazilian portuguese, chinese, japanese). You can check the language of the next batch on the "Apply" page.

## **THE FULLSTACK PROGRAM**

### **What will I be able to build at the end of the 9 weeks?**

You'll have a Ruby on Rails junior developer level. This means you'll be able to quickly prototype your ideas by creating a web application on your own. For instance, you will know how to include authentication to your site (simple signin/signup, or Facebook/Twitter connect), add an admin back-office, include payment features, automate emails sending, and much more. You'll also know how to quickly deploy in production and you will have learnt the programming best practices used by top-level startups. You'll then be facing a choice: continue your entrepreneurial journey or become a junior developer in a startup or a bigger tech company.

### **Only 9 weeks?**

Le Wagon is a 9-week program, from Monday to Friday, 9am - 7pm (minimum). To get the most out of the program you need to fully commit to it as it is really a demanding experience (450 hours of code out of 9 weeks!). In the past, people who kept a side activity during the bootcamp struggled to keep the pace.



The main difference between a CS degree and a bootcamp is that we don't start from scratch. In a traditional curriculum you will start learning all the theoretical knowledge (electronic basis, hardware...) before tackling all the elements that make up the Internet today now (user interface, operating system...) and then only would you approach web development. This is useful only if you want to be able to navigate between these layers. However nowadays, you can build almost anything while only mastering the last part. That's why we built Le Wagon Curriculum the way it is. Of course you won't work at Tesla as an engineer but you will be able to either build your own product or start as a junior developer or become a product manager. Do not hesitate to make up your own mind by watching our latest demo days!

### **What is the main difference with other bootcamps?**

We're more product-driven than any other bootcamp you might find. The idea behind Le Wagon is to give you all the skill you might need to bootstrap and launch your own product/web app. That's why we teach Ruby and its framework, Ruby on Rails, both are really easy to grasp and give you the ability to build and deploy your product quickly. Our CTO wrote an article on this matter on Le Wagon's Medium.

### **Will I learn mobile app development?**

Yes and no. Let's be clear, you will not learn iOS, Android or Windows Phone development. We really think these skills cannot be taught (honestly) in 9 weeks. We prefer teaching you the basics of programming and web development for many reasons. First, these are the core skills of a software engineer, even if you want to dive into mobile development later on. Second, the web is THE open platform you need to understand. Thanks to Responsive Web Design (which is part of the program), you'll be able to create apps that will display nicely on mobile devices. You'll also learn to create APIs that will be used by your mobile apps. It will then be very easy for any mobile developer to code your iOS or Android interface starting from the API you've built.

### **Do you offer a part-time course or evening classes?**

We only have a full-time program. We encourage you to join one of our Meetup groups to come to evening workshops. Also, don't hesitate to have a look at our YouTube page to start your journey into web development.

### **Do you provide accommodation/catering?**

No we do not. The price of the 9-week course only includes the tuition - and unlimited tea and coffee. Our city managers can help you as they know their cities well! They will be able to recommend some great places for your stay!



### **Do you offer career support?**

We consider that the ability of each student to find a position after the bootcamp is highly based on the student's motivation and work. Guaranteeing 100% employment at the end of the bootcamp would be dishonest in that regard.

When choosing a coding bootcamp, you should focus more on the quality of the curriculum and teachers. You should ask yourself about the skills you will have at the end and the product you will be able to build. That's what will really make you hireable. You can have a look at our various demo days to get an idea about what students are able to build at the end of the 9 weeks.

However, Le Wagon has an excellent network within the tech industry and a very good reputation with recruiters. Our students massively benefit from this. Moreover, we now have more than 2,700 alumni. This internal network is your first support when looking for a job: our alumni work for the best tech companies out there and can recommend you for a position, and they'll also be available to support you during the search - by answering technical or non-technical questions.

## **EMPLOYERS**

### **Is it possible to share our job offer(s) with your alumni?**

Yes of course. However recruitment is a long-term relationship and as such we would love to connect with you first!

### **Do you organise recruitment events?**

Yes we do! From regular events to great workshops to promote your company's culture we would love to discuss the best format fitting your needs around a coffee. Tell us a bit more about you and join our alumni network right here!

