IRONHACK SCHOOL

Web Development

Ironhack Course Guide – Full Time Bootcamp

Let's go! 👩🎨



OUR CAMPUS AROUND THE WORLD

AMSTERDAM
BARCELONA
BERLIN
LISBON
MADRID
MEXICO CITY
MIAMI
PARIS
SAO PAULO
REMOTE

Launch your Web Development Career 👩‍💻

This course enables students to design and build full-stack JavaScript web applications. Students will learn the fundamentals of programming, with a big emphasis on battle-tested patterns and best practices. By the end of the course, students will have the ability to evaluate a problem and select an optimal solution using the language/framework best suited for a project's scope. In addition to technical skills, the course will train students in how to think like a programmer. **Students will learn how to deconstruct complex problems and break them into smaller modules.**

However, the most important skill that students will take away from this course is the ability to learn. Technology is fast-moving and ever-changing. A good programmer has a general understanding of the various programming languages and when to use them.

A great programmer understands the fundamental structure and possesses the ability to learn any new coding language when required.



"I think that great programming is not all that dissimilar to great art. Once you start thinking in concepts of programming it makes you a better person... as does learning a foreign language, as does learning math, as does learning how to read".

Jack Dorsey | Founder of Twitter, Founder & CEO of Square

Course Objectives

Learn how to learn. Great developers know how to troubleshoot, read the documentation and pick up new technologies on the go.

Write clean, modular and efficient code using Object-Oriented principles.

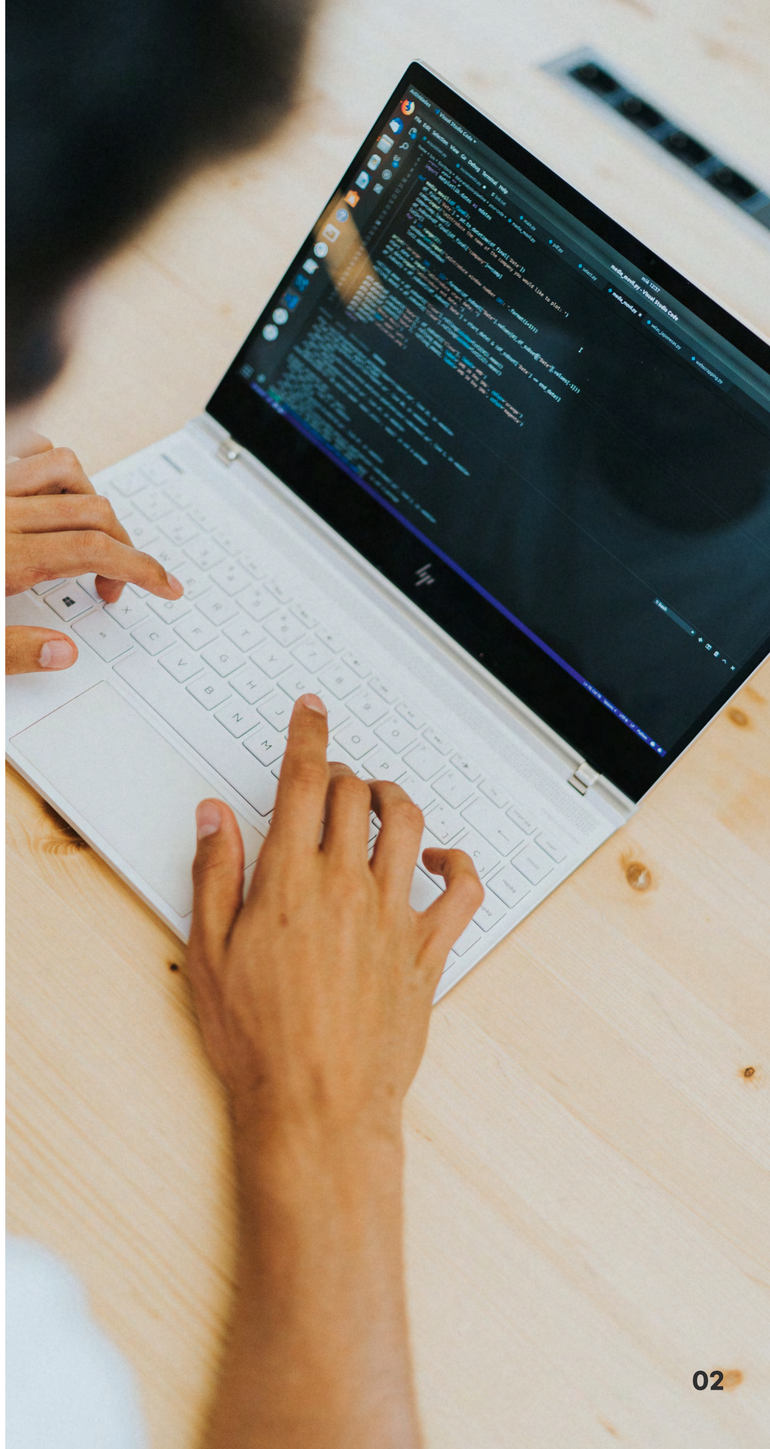
Understand the fundamentals of the MVC Frameworks (Model-View-Controller).

Create database driven web applications using relational databases and ODMs.

Understand how to integrate 3rd party services using APIs.

Create well-tested applications using TDD (Test Driven Development) principles.

Design and build a robust full-stack web application from end-to-end using JavaScript in the frontend and the backend.



Our Students

🎨

Career in UX/UI Design

Make a switch into one of the hottest and most upcoming careers.

UX is becoming an important role in every customer focused company.

🤝

Entrepreneurs

Design and gather valuable user feedback through high fidelity prototypes for your idea before building a MVP.

🤖

Web & Mobile Developers

Complement your programming skills.

Learn to design captivating user experiences before jumping into code.

👩🏻‍🎓

Recent Graduates

Just graduated from high school or college?

This course will provide you with the fundamental skills to launch a career in a technical field or start your own business.



Chris Peterson

UX/UI DESIGN BOOTCAMP

Ironhack Madrid

“Coming from an English teacher background and without experience nor studies in design, this bootcamp has given me a solid foundation to meet the challenges of the UX/ UI field of today.”

Course Summary

Module 0 / Prework

PREPARATION WORK

Up to 60 hours of remote preparation in HTML, CSS, and JavaScript via Ironhack's online platform using Git and GitHub.

Setup

INSTALL FEST

Students will install the tools needed to successfully follow the classes in the Bootcamp.

Module #1

FRONTEND | HTML5, CSS3, JAVASCRIPT & GIT

You'll be introduced to the fundamentals of responsive web design with HTML/CSS and the amazing world of JavaScript using ES6.

As a full-stack JavaScript developer, you will need to understand everything, from the most basic to advanced concepts, so get ready for intense days of learning. At the same time, you'll notice your learning curve growing gradually.



Course Summary

Module #2 | Weeks 4–6

BACKEND | NODEJS – EXPRESSJS – MONGODB

You will learn everything you need about programming a server using NodeJS, Express, and Handlebars. Additionally, you will learn about the non-relational database, MongoDB, and Mongoose, an Object Data Modeling library that provides a rigorous modeling environment for your data.

Finally, you will learn how to make HTTP requests using Axios, integrate API's into your application and deploy them for production.

Module #3 | Weeks 7–9

FRONTEND | REACTJS

You will learn one of the most popular frontend frameworks in the world: ReactJS. Concepts such as Single Page App (SPA) and component-based frameworks will start to sound familiar.

You will build a full-stack application using all the most important concepts learned in Module 2, combined with React so you'll end up creating MERN (Mongo-Express-React-Node) app.



Curriculum

Prework

IRONHACK ONLINE PREWORK

Students will be introduced to the Ironhack online platform, which will cover the fundamentals of programming. Topics include:

> *Introduction to developer tools and dev environment setup*
>
> *Introduction basic HTML & CSS*
>
> *Programming with JavaScript*
>
> *Introduction to version control with Git & GitHub*

Week #1

INTRODUCTION TO WEB DEVELOPMENT AND PROGRAMMING

Students will be introduced to HTML5 and CSS3 fundamentals and the principles of JavaScript programming language. The week will end with DOM (Document Object Model) manipulation.

> *Introduction to basics of Programming and Algorithms*
>
> *Data Types in JavaScript*
>
> *HTML5 and CSS3 Intro*
>
> *Object-Oriented Programming using JavaScript*
>
> *DOM introduction and manipulation*



Claudia Sanchez

WEB DEVELOPMENT BOOTCAMP

Ironhack Miami

“I’m grateful to have gone through this experience because it really did change my life.

I've made friendships that'll last me a lifetime and the return on my investment was better than I could've imagined.”

Curriculum

Week #2

FRONTEND WEB DEVELOPMENT

Students will learn how to use Vanilla JavaScript to manipulate DOM. By the end of the week, students will explore Canvas and learn how to draw graphics and animations and will combine all the knowledge from the weeks 1 and 2 to work in the project in the upcoming week:

> *Responsive web design with Bootstrap and Flexbox*
>
> *Asynchronous JavaScript*
>
> *DOM manipulation (creating, updating and event handling)*
>
> *Drawing shapes, text, images, transformation and composition with Canvas*

Week #3

PROJECT #1

Students will use their newly acquired skills such a Vanilla JS, Bootstrap/Flexbox and Canvas to create and publish their games on GitHub pages.



Ruben Ortiz

WEB DEVELOPMENT BOOTCAMP

Ironhack Miami

“It is intensive, fast paced, rigorous and incredibly demanding, but everything's done for you to succeed. If you can make it through the Ironhack curriculum, you can make it through anything else tech or life throws at you with an incredible confidence.

The instructors are always present as well as the Teachers Assistants. You are not alone as your classmates are going through the same things as you, are here too, working together as one cohort.”

Curriculum

Week #4

BACKEND WEB DEVELOPMENT – NODEJS, EXPRESS & MONGODB

Students will learn how to build use NodeJS and ExpressJS. They will learn how to store data using Mongo.

> *Introduction to NodeJS*
>
> *Introduction to MongoDB Models with Mongoose*
>
> *Introduction to Express*
>
> *Express: routing, rendering*
>
> *Rendering with HTML Templates – Handlebars*

Week #5

ADVANCED BACKEND

Students will learn how to authenticate users, they will dig deeper in Express and MongoDB and will learn how to enable real-time event-based communication.

> *JS Authentication with Passport.js*
>
> *Deployment using Heroku*
>
> *Advanced ES6*
>
> *Advanced querying in MongoDB*
>
> *AJAX Calls using Axios*
>
> *Integration of external APIs*



George Gvetadze

FULLSTACK DEVELOPER

Ironhack Berlin

"Great bootcamp, great course. It was hard, but totally worth it. Ironhack gave me all the necessary knowledge and tools I needed.

Now I know what I need to improve in my knowledge, how can I do it by myself and where to find all the related stuff"

Curriculum

Week #6

PROJECT #2

Students will have the opportunity to develop Express based full-stack application using what they have learned during the module 2. The project will include a Node.js server running with Express, MongoDB storage and dynamic rendering.

Week #7

REACT AND SINGLE PAGE APPLICATIONS

Students will learn how to create their own SPAs using ReactJS. They will learn how to create a RESTful API and on top of it a frontend app using React.

> *ReactJS – components, props, state, lifecycle methods*
>
> *RESTful API design*
>
> *Build a full-stack app based on MERN stack*
>
> *Frontend and backend user authentication*
>
> *Deployment to Heroku*

Week #8–9

FINAL PROJECT

Students will build and deploy a whole a from scratch using the MERN stack.



Silvio Galli

WEB DEVELOPMENT BOOTCAMP

Ironhack Berlin

"Amazing experience, It was not only a journey into coding languages but even an inner journey. Because when you are stuck on something, you need to find the way and the resources (inside and outside yourself) to go out of it.

And Ironhack team helps you in this effort"

Career Support

A tailor Career Support program

We have a dedicated team of Career Coaches that guides and supports you from the first day of bootcamp until your first day at work.

They're responsible for providing personalized career support and nurturing hiring partner relationships to provide relevant opportunities.



During the bootcamp

Together with our career coaches, we will get you ready to start the job hunt as soon as you graduate.

We will focus on introspection exercises to define your career path, start building your personal brand and online presence and get you started in the art of networking.



During Career Week

Week 10 is a full sprint dedicated to Career Services.

We will practice the whole process – from generating leads, to securing and performing in personal interviews, nailing technical interviews and negotiating to close the deal.



After the bootcamp

Our support extends long past career week.

Aside from the Hiring Fair, which can happen during Career Week or up to 4 weeks after, you will have access to our continuous learning resources and ongoing support from our Career Coaches.



Meri-Pier Ligioso

WEB DEVELOPMENT BOOTCAMP

Ironhack Paris

"The career services were also super helpful. The Outcomes Manager, helped us with our resumes, rebranding, and explaining our background to recruiters. We got to meet with many companies, as well as recruitment sites.

Three weeks after the bootcamp, I had three offers from very interesting companies. I can honestly say that none of that would have been possible without Ironhack."

Career Support

Our Results

88%
PLACEMENT RATE

+600
Partner Companies

+5,000
students graduated

Our graduates have been hired at companies including:

Google · DEVIALAB · cabify · LEAVY.CO · Capgemini · Product Hunt · LAVU · sage



Lorena Pérez
HEAD OF HUMAN RESSOURCES
Cabify

"Thanks to the experience that Cabify had with Ironhack, we were able to incorporate new colleagues into the Product team, who contributed with the knowledge acquired during their technological journey and brought a lot of enthusiasm to start developing themselves in this sector."

Careerhack

Your first step to a successful tech career

Stage #0 | Discovery

Ironhackers come from all walks of life.

The discovery stage is designed to ensure students from different backgrounds come into the bootcamp having reflected on their values and objectives, and have a general understanding of the digital ecosystem and the possibilities that lie ahead of them.

> *Expect introspection exercises to identify your top values and skills, and some market research in order to clarify future possible outcomes.*

To be completed during the Bootcamp 💪

Stage #1 | Digital Foundations

All Ironhackers, regardless of their desired outcome, have one thing in common – they are looking to enter the digital market.

The Digital Foundations stage is designed to prepare students to navigate the digital ecosystem – whether they're looking for a job, intend to freelance or start their own venture.

> *Expect to work on crafting a compelling story, defining a personal brand statement and identifying channels to promote it: LinkedIn, CV, Networking events...*

To be completed during the Bootcamp 💪



Stage #2 | Job Hunt

As the name suggests, this stage is designed for anybody looking for a job. Like any good athlete, first we warm up, then we race.

Careerhack

Your first step to a successful tech career

✨

Phase #1 • Career Warm Up

In the warm up phase, students go through a full job hunting drill, covering every stage of a process, so they can replicate it once they start looking on their own.

> *Expect to learn how to generate leads, apply to jobs, master both technical and personal interviews and negotiate, accept or reject an offer.*

To be completed during Career Week 🙌

🔥

Phase #2 • Sprint

Now we're all warmed up. It's game time!
Throughout the job search, we provide weekly one on one guidance and support, and access to our Hiring Partners through different channels.

> *Expect digital and physical check in session, Hiring Fairs, job offers and more.*

To be completed during Career Week 🙌

Alumni Program

After your graduation at Ironhack, you will become part of a passionate community named Ironhackers!

At Ironhack, we developed an alumni program that is based on offering our alumni all that is needed to ensure them the following:

Continuous Learning

This is an industry of change, not stagnancy.
Our alumni learned this through our bootcamps, and with the alumni program we offer them opportunities to continue their learning and keep improving their skills.

Ironhack organizes workshops for alumni and they have a 50% discount or free access, depending on the type of course.

Networking

This community grows fast. Ironhack events give the chance to all Ironhackers to get to know each other and connect.

Between these regular events, you can find our Ironbeers and alumni summits, among many others.

Community

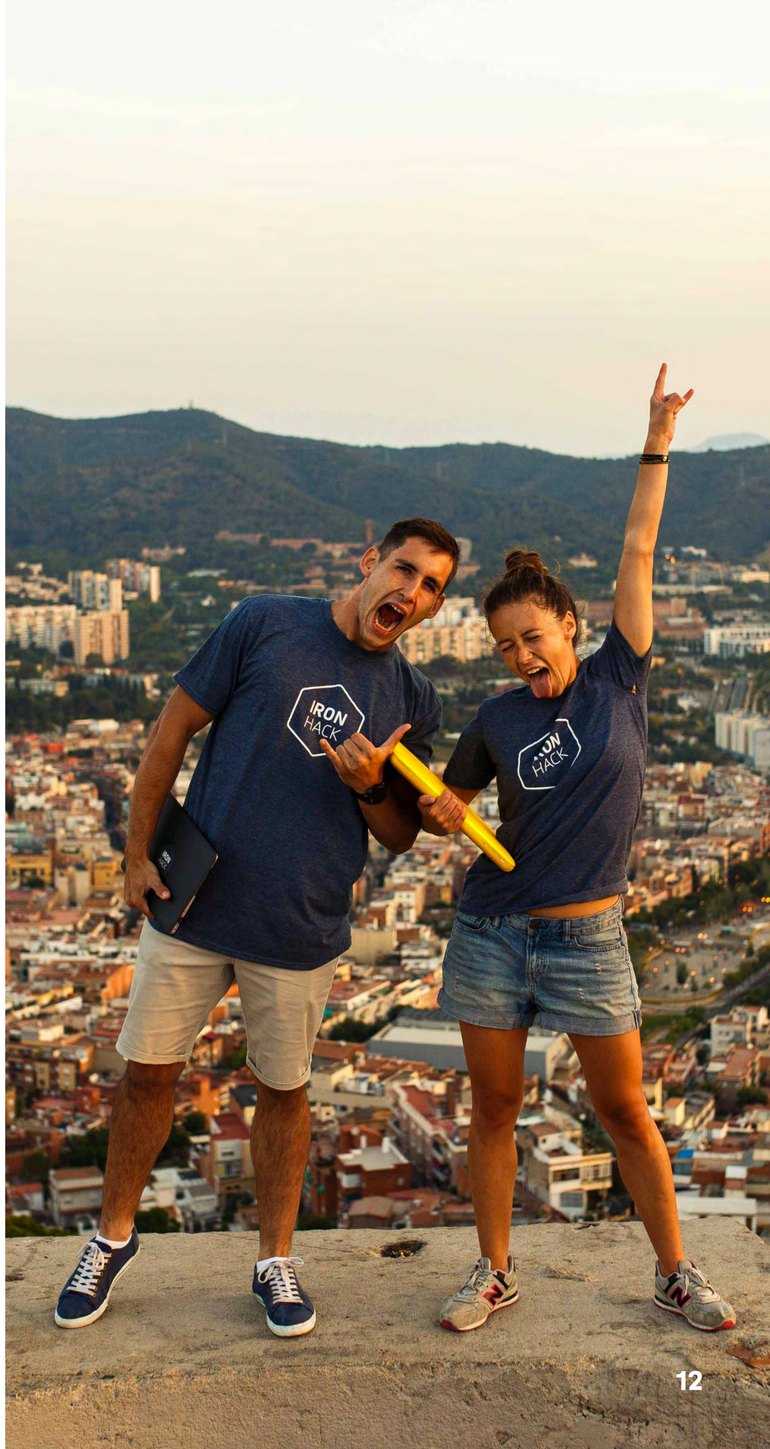
Cooperation is one of the most important pillars to make any community strong. For this reason, we created our Alumni Slack channels so they have a way to connect and share knowledge easily. We also encourage our alumni to register in our Buddy Program by mentioning new students and to cooperate together to build new projects.

Some other benefits

Finding co-founders for new projects between Ironhack Alumni.

Sharing contacts between Ironhackers to help open doors to interesting companies.

Great discounts on your future courses with Ironhack & Tech- events.



FAQ's

Is it actually possible to learn all of this in 9 weeks?

Yes, it is! As long as you put in the work, we'll be there to help you along the way and make it a reality.

Come prepared, work hard, put in extra time... and you'll be amazed as to what you'll have accomplished in the 9 weeks.

But, can't I learn this content online?

It's possible. However, for most of us, learning UX/UI Design can be challenging without proper mentorship and support. In fact, most of our students have tried self-study first but have realized it wasn't the right path for them.

With the resources, teachers, and peers that Ironhack provides, we're confident that you'll have all the tools necessary to keep you motivated and help you reach your goals!

How do you reconcile the knowledge gap between students with different technical levels?

Completing the prework is important to make sure that everyone has the same foundational knowledge. Having said that, some people will move faster than others, but that's totally okay!

Our curriculum is designed in such a way that there is some flexibility for those that are moving faster and those that need a bit more personalized attention.

How many hours per week will I be working?

Around 40 hours per week. Classes start at 9AM and typically finish around 6PM. However, once the class is over, you'll keep working on your exercises and personal projects alongside your colleagues.

On Friday, you'll do an assessment exercise that will go over all of the topics covered that week. That'll give you an idea of how much work you'll need to do over the weekend!



Contact us

Interested? Let's chat!

Check out our campuses by contacting the admissions team. You can also view student projects or attend one of our hackshows.

We look forward to connecting with you!



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