IRON HACK

WEB DEVELOPMENT

FULL TIME BOOTCAMP

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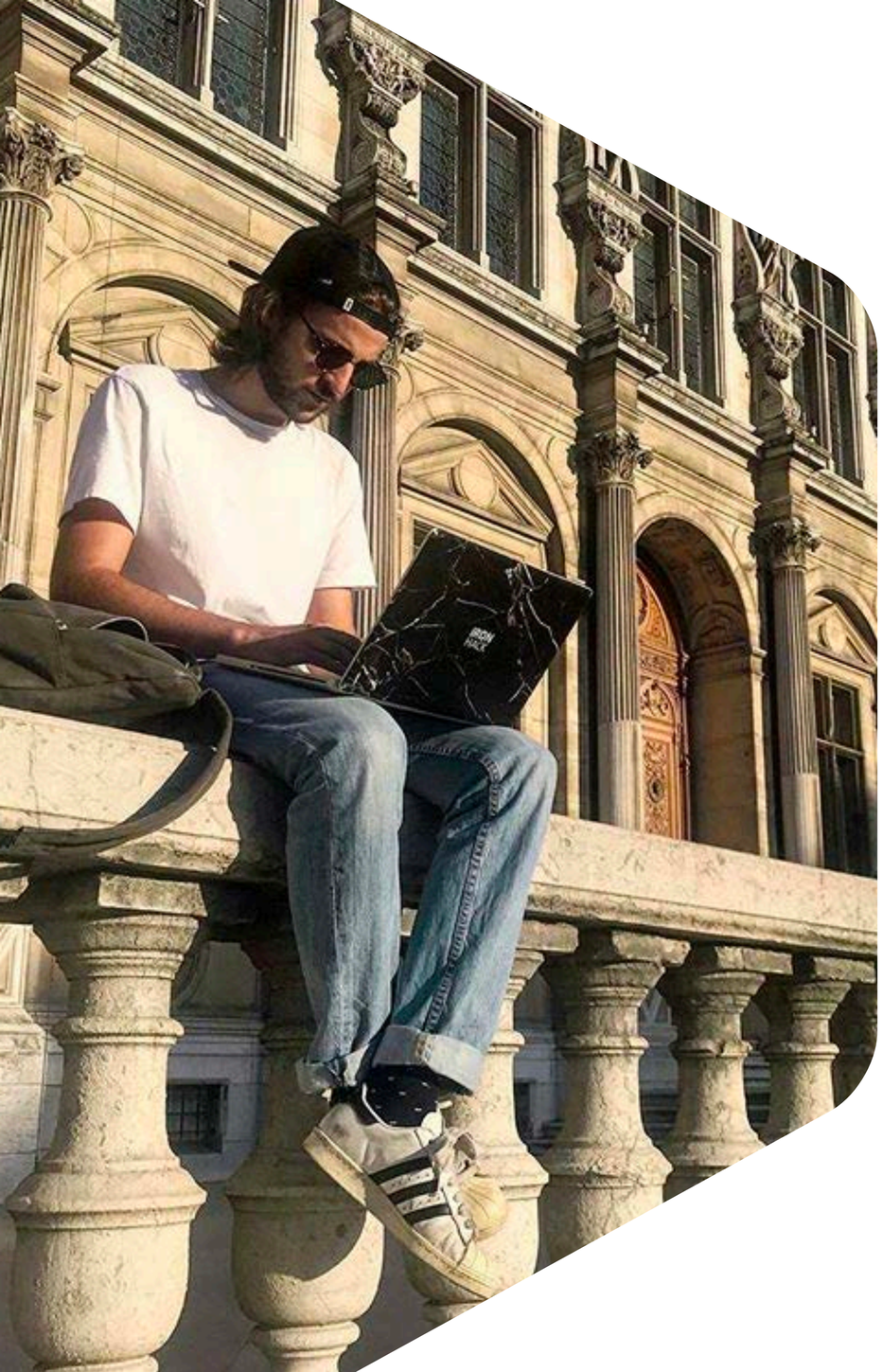


Launch your Web Development Career

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

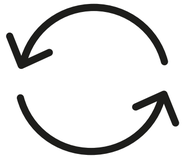
- **Design and build a robust full-stack web application** from end-to-end using JavaScript in the front-end and the back-end
- **Understand the fundamentals of the MVC Framework** (Model-View-Controller)
- **Write clean, modular and efficient code** using Object Oriented principles
- **Create well-tested applications using TDD (**Test Driven Development) principles
- **Understand how to integrate 3rd party services using APIs**
- **Create database driven web applications** using relational databases and ORMs
- Learn the tools and techniques to **positively contribute to the workflow within a development team**
- **Learn how to learn.** Great developers know how to troubleshoot, read documentation and pick up new technologies on the go

Our Students

XABI VICUÑA

WEB DEVELOPMENT BOOTCAMP | MADRID

I've been involved in digital startups for the past few years now. In my case, I had the feeling that I was lacking the appropriate level of knowledge to execute product-related projects to a high level. That's how I ended up joining the web development bootcamp."



Career Changers

Looking to make a transition into a technical career? Ironhack's Web Development Bootcamp is designed to help you acquire the right set of skills to get a job as a junior developer.

Entrepreneurs

If you're thinking of launching a technology company, **this course will help you acquire the skills required to build a MVP or manage a technical team.**

Level Up

This course is the perfect choice for those looking to complement their existing skillset **and move into a more technically focused role, such as product analyst, growth hacker etc.**

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.

Course Summary

PREWORK
Preparation Work

Four weeks of remote preparation in HTML, CSS and JavaScript via Ironhack's online platform using Git.

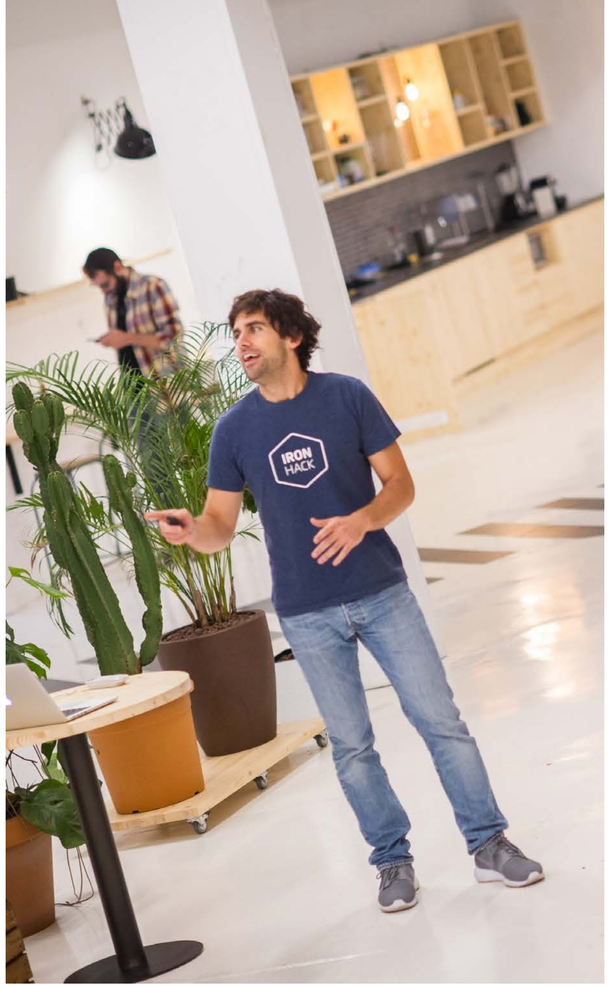
SETUP | Install Fest

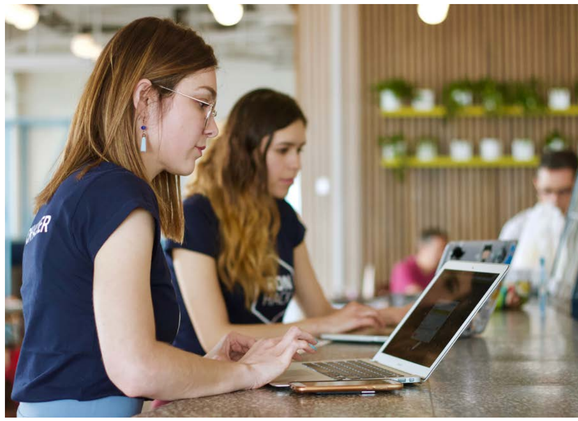
Students will check and install tools for the Bootcamp in our classroom.

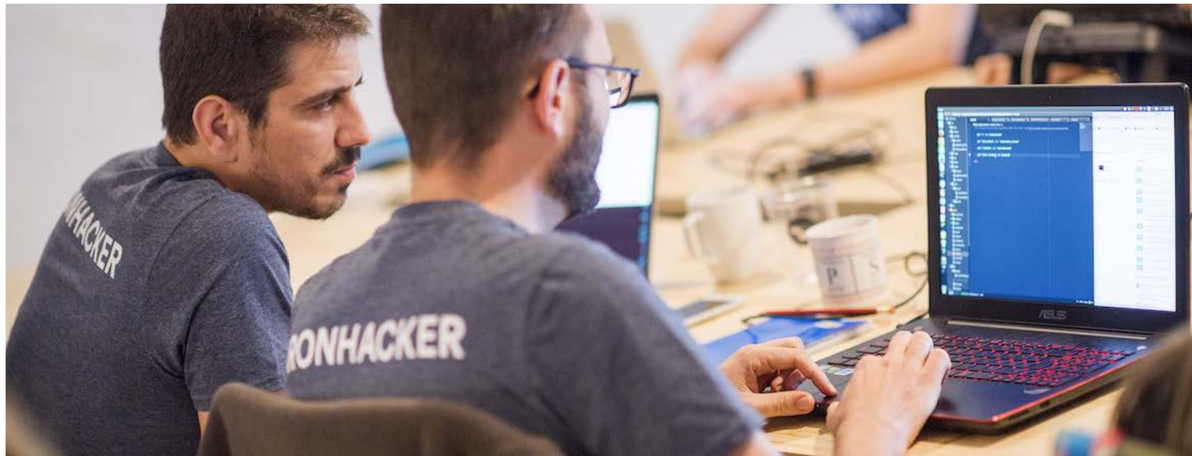
MODULE 1 | WEEKS 1-3
FrontEnd | HTML5, CSS3, JavaScript and Git

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

As a Full-Stack JavaScript developer, you will need to understand everything about this language, so get ready for intense days learning.







Course Summary

MODULE 2 | WEEKS 4-6

BackEnd | NodeJS - Express - MongoDB

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

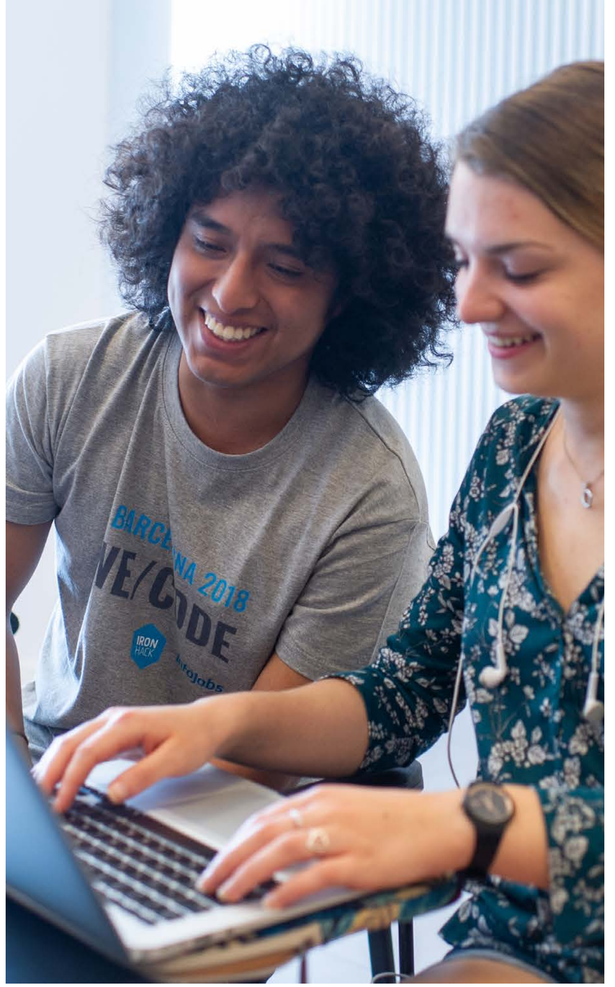
Finally, you will learn how to make HTTP requests using Axios, integrate API's into your application and deploy them for production.

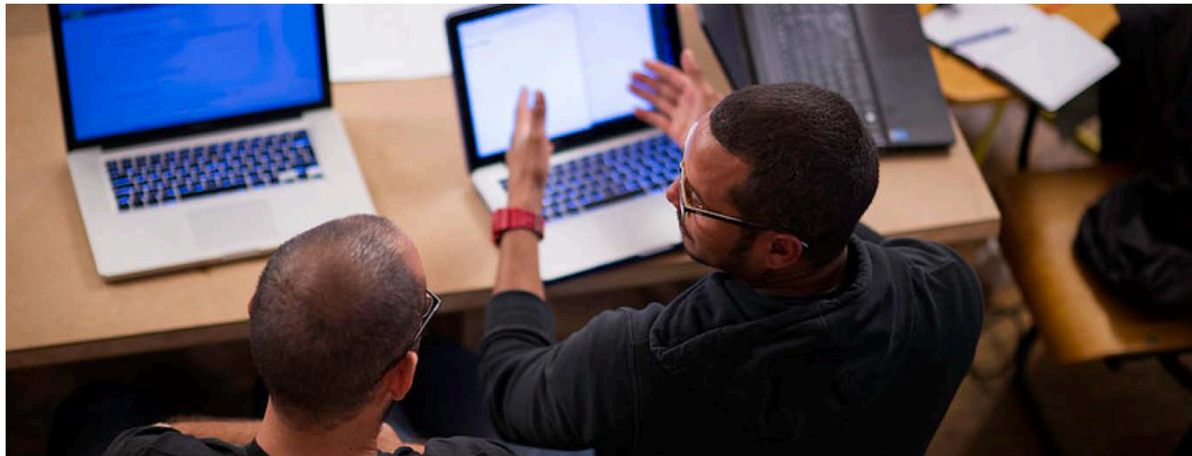
MODULE 3 | WEEKS 7-9

FrontEnd Framework | MERN Stack

You will learn one of the most popular Frontend frameworks in the world: ReactJS. Concepts such Single Page App (SPA) and component-based frameworks will start to sound familiar. This technology is used by the most important tech companies around the world.

ReactJS was developed by Facebook engineers, and it is maintained by Facebook and a community of individual developers and companies.





Curriculum

CLAUDIA SANCHEZ

WEB DEVELOPMENT BOOTCAMP | 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.”

PREWORK

Ironhack Online Pre-Work

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 programming. The week will end with Document Object Model manipulation.

- Introduction to basics of Programming and Algorithms
- HTML5 and CSS3 Intro
- Object Oriented Programming using JavaScript
- DOM introduction and manipulation

Curriculum

RUBEN ORTIZ

WEB DEVELOPMENT BOOTCAMP | 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.”

WEEK 2 | Front-End Web Development

Students will learn their first front-end framework, jQuery. By the end of the week, students will explore Canvas to draw graphics and animations and create awesome projects.

- Responsive web design with Bootstrap
- CSS framework Asynchronous
- JavaScript
- Manipulating events with jQuery
- Drawing shapes, text, images, transformation and composition with Canvas

WEEK 3 | Project #1

Students will use their newly acquired skills such a Vanilla JS, jQuery and Canvas to create and publish their own game.

Curriculum

GEORGE GVETADZE

FULLSTACK DEVELOPER | 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”

WEEK 4 | Introduction to FullStack JS

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

- Introduction to NodeJS
- Introduction to ExpressJS
- Express: routing, rendering
- Introduction to MongoDB Models with Mongoose
- Rendering with HTML Templates

WEEK 5 | Advanced FullStack JS

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.

- Authentification with Passport.js
- Deployment using Heroku
- Advanced ES6
- Advanced querying in MongoDB
- AJAX Calls using Axios
- Integration to external resources such as Google Maps

Curriculum

SILVIO GALLI

WEB DEVELOPMENT BOOTCAMP | 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”

WEEK 6 | Project #2

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

WEEK 7 | Single Page Application JS

Students will learn how to create their own SPA using the most trend frontend framework: ReactJS. They will learn how to create a RESTful API to communicate between frontend and backend.

- **RESTful API design**
- **Build API with MERN stack**
- **ReactJS Intro**
- **Components Oriented programming**

WEEKS 8-9 | Final Project

Students will build a whole application from scratch using MERN stack.

Both frontend and backend will be connected using a RESTful API develop by their own.

Career Support

MERI-PIER LIGIOSO

WEB DEVELOPMENT BOOTCAMP | 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 Prep. & Hiring Week

Our dream team is dedicated to helping you achieve success on your terms.

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

Career Coaching

Students will have the opportunity to explore different career paths that are available to them with their new-acquired skills and choose the right fit.

Job Preparation

Our placements team will assist students with their resumes and LinkedIn profiles while preparing them for technical interviews and salary negociations.

Networking Events

Students will have the opportunity to connect directly with employers at Ironhack networking and hiring events.

Career Support

Our graduates have been hired at companies including:

Google DEVIALAB El Corte Inglés sage ROCKETINTERNET

RingCentral Product Hunt XING Redbooth

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.."

DEBORAH DECOTTEGNIE

MANAGER OF THE CREATIVE STUDIO | CAPGEMINI PARIS

"After hiring a few Ironhackers, I would describe the end-to-end experience as delightful! It was great to be a part of such a positive and organized hiring process and I was seduced by the high potential of all the graduates."

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 in 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

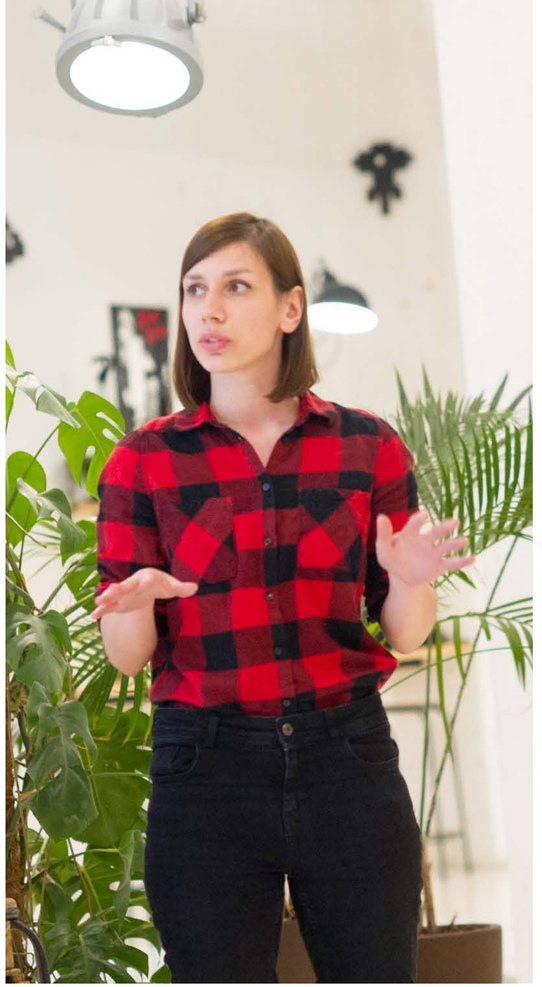
This community grows fast. Ironhack events give the chance to all Ironhackers to get to know each other and connect. Between these regular events, you can find our Ironbeers and alumni summits, among many others.

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?

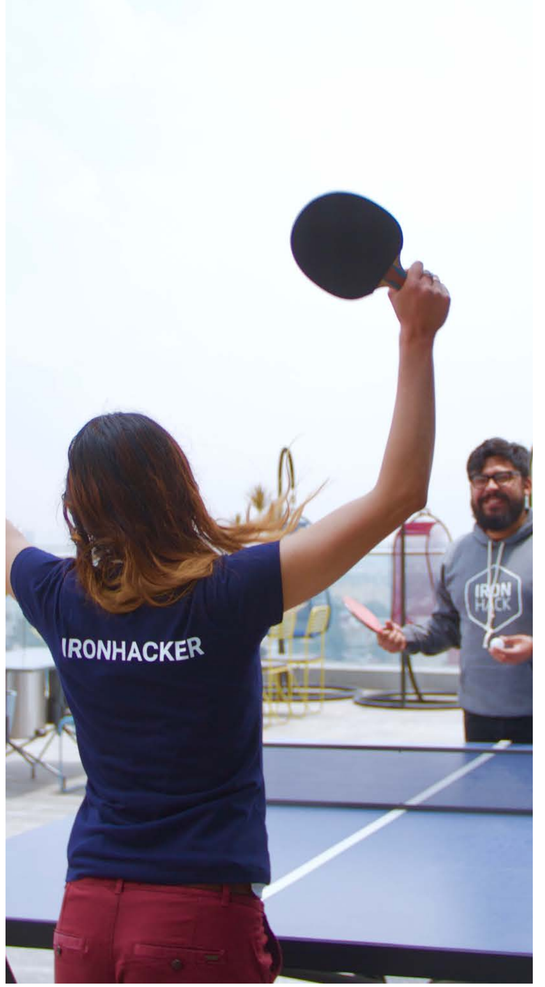
It's possible. However, for most of us, learning to code can be challenging without proper mentorship and support. In fact, most of our students have tried self-study first but have realized it wasn't the right path for them.
With the resources, teachers, and peers that Ironhack provides, we're confident 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 80 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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