Postgraduate Diploma

Front-End Development from Scratch

tech global university

tech global university

Postgraduate Diploma
Front-End Development from Scratch

- Modality: **online**
- Duration: **6 months**
- Certificate: **TECH Global University**
- Accreditation: **18 ECTS**
- Schedule: **at your own pace**
- Exams: **online**

Website: www.techtitute.com/us/information-technology/postgraduate-diploma/postgraduate-diploma-front-end-development-scratch

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01

Introduction to the Program

Front-end development is a crucial component in the creation of applications and websites, as it is the visible face with which users interact. According to data from the World Economic Forum report, skills in programming and web development are among the most sought after by employers globally, especially those related to the creation of attractive, accessible and functional user interfaces. Taking into account the relevance of this field, TECH has developed this Postgraduate Diploma that will address the most up-to-date concepts in this area. Using a 100% online methodology, specialists will master HTML, CSS, JavaScript and React, acquiring the necessary skills to create interactive, intuitive web interfaces adapted to the needs of the user.

Ready to build the digital future? Here you will study at your own pace, from anywhere and using the Relearning methodology. Enroll now, expand your knowledge and take your career to the next level!"

Front-end Development is essential for those who are interested in the digital world, as it allows the creation of visual and interactive interfaces that are fundamental for any modern web application. In this context, acquiring knowledge in related technologies opens the door to a sector in constant expansion, where professional opportunities continue to grow. In fact, the ability to transform ideas into digital products accessible to millions of people is one of the main motivations for studying this field.

In this context, TECH presents this Front-End Development from Scratch program as the best opportunity to acquire the most outstanding knowledge in this field. Through a comprehensive and multidisciplinary syllabus, all the essential aspects of web development will be covered, starting from the basics and progressing to the most advanced tools used in the industry. Specialists will therefore become familiar with the design of intuitive interfaces and the creation of interactive applications that adapt to the needs of users. In addition, they will address the modern technologies and frameworks that enable the development of fast and effective solutions.

By acquiring this knowledge, graduates will have access to a wide variety of job opportunities in a sector with a high demand for professionals. With the skills they have acquired, they will be able to take on roles such as front-end developers, interface designers or digital project leaders, with the ability to create unique web experiences that make a difference in the market. In short, the ability to create attractive and functional visual interfaces will increase competitiveness in the area.

Finally, this program will be taught entirely online, offering students the flexibility to study from anywhere, adapting to their schedules. In turn, the Relearning methodology implemented will enhance knowledge retention through repetition, allowing the fundamental concepts to be assimilated in a more efficient and effective way. Also, access to the content will be continuous, which favors autonomous learning and constant updating.

This **Postgraduate Diploma in Front-End Development from Scratch** contains the most complete and up-to-date educational program on the market. Its most notable features are:

- The development of case studies presented by experts in programming
- The graphic, schematic, and practical contents with which they are created, provide scientific and practical information on the disciplines that are essential for professional practice
- Practical exercises where the self-assessment process can be carried out to improve learning
- Special emphasis on innovative methodologies in Front-End Development from Scratch
- Theoretical lessons, questions to the expert, debate forums on controversial topics, and individual reflection assignments
- Content that is accessible from any fixed or portable device with an Internet connection

It's your opportunity to create! Become an expert in Front-End Development regardless of your previous experience. At TECH, you will have access to a 100% online program that will offer you great flexibility"

Thanks to Relearning, your learning will be more effective and long-lasting. You will learn how to create attractive and functional visual interfaces, mastering the most innovative tools. Start building a better future!"

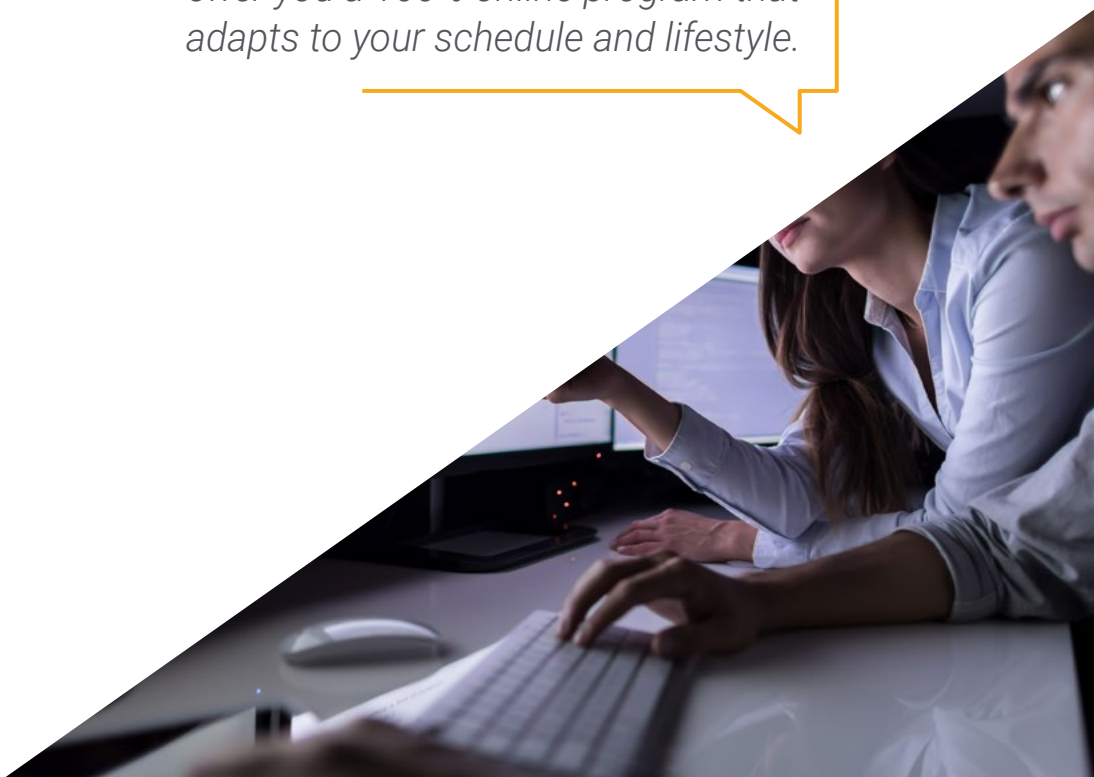
Are you passionate about creating websites? With this complete program you will learn how to design and develop interactive interfaces from start to finish. Start now and turn your passion into your career!

Become the web development expert you always wanted to be. At TECH we offer you a 100% online program that adapts to your schedule and lifestyle.

Its teaching staff includes professionals from the field of programming, who bring their work experience to this program, as well as renowned specialists from leading companies and prestigious universities.

The multimedia content, developed with the latest educational technology, will provide the professional with situated and contextual learning, i.e., a simulated environment that will provide an immersive learning experience designed to prepare for real-life situations.

This program is designed around Problem-Based Learning, whereby the student must try to solve the different professional practice situations that arise throughout the program. For this purpose, the professional will be assisted by an innovative interactive video system created by renowned and experienced experts.



02

Why Study at TECH?

TECH is the world's largest online university. With an impressive catalog of more than 14,000 university programs available in 11 languages, it is positioned as a leader in employability, with a 99% job placement rate. In addition, it relies on an enormous faculty of more than 6,000 professors of the highest international renown.

Study at the world's largest online university and guarantee your professional success. The future starts at TECH"

The world's best online university, according to FORBES

The prestigious Forbes magazine, specialized in business and finance, has highlighted TECH as "the best online university in the world" This is what they have recently stated in an article in their digital edition in which they echo the success story of this institution, "thanks to the academic offer it provides, the selection of its teaching staff, and an innovative learning method oriented to form the professionals of the future".

The best top international faculty

TECH's faculty is made up of more than 6,000 professors of the highest international prestige. Professors, researchers and top executives of multinational companies, including Isaiah Covington, performance coach of the Boston Celtics; Magda Romanska, principal investigator at Harvard MetaLAB; Ignacio Wistumba, chairman of the department of translational molecular pathology at MD Anderson Cancer Center; and D.W. Pine, creative director of TIME magazine, among others.

The world's largest online university

TECH is the world's largest online university. We are the largest educational institution, with the best and widest digital educational catalog, one hundred percent online and covering most areas of knowledge. We offer the largest selection of our own degrees and accredited online undergraduate and postgraduate degrees. In total, more than 14,000 university programs, in ten different languages, making us the largest educational institution in the world.

The most complete syllabuses on the university scene

TECH offers the most complete syllabuses on the university scene, with programs that cover fundamental concepts and, at the same time, the main scientific advances in their specific scientific areas. In addition, these programs are continuously updated to guarantee students the academic vanguard and the most demanded professional skills. and the most in-demand professional competencies. In this way, the university's qualifications provide its graduates with a significant advantage to propel their careers to success.

A unique learning method

TECH is the first university to use Relearning in all its programs. This is the best online learning methodology, accredited with international teaching quality certifications, provided by prestigious educational agencies. In addition, this innovative academic model is complemented by the "Case Method", thereby configuring a unique online teaching strategy. Innovative teaching resources are also implemented, including detailed videos, infographics and interactive summaries.

The official online university of the NBA

TECH is the official online university of the NBA. Thanks to our agreement with the biggest league in basketball, we offer our students exclusive university programs, as well as a wide variety of educational resources focused on the business of the league and other areas of the sports industry. Each program is made up of a uniquely designed syllabus and features exceptional guest hosts: professionals with a distinguished sports background who will offer their expertise on the most relevant topics.

Leaders in employability

TECH has become the leading university in employability. Ninety-nine percent of its students obtain jobs in the academic field they have studied within one year of completing any of the university's programs. A similar number achieve immediate career enhancement. All this thanks to a study methodology that bases its effectiveness on the acquisition of practical skills, which are absolutely necessary for professional development.

Google Premier Partner

The American technology giant has awarded TECH the Google Premier Partner badge. This award, which is only available to 3% of the world's companies, highlights the efficient, flexible and tailored experience that this university provides to students. The recognition not only accredits the maximum rigor, performance and investment in TECH's digital infrastructures, but also places this university as one of the world's leading technology companies.

The top-rated university by its students

Students have positioned TECH as the world's top-rated university on the main review websites, with a highest rating of 4.9 out of 5, obtained from more than 1,000 reviews. These results consolidate TECH as the benchmark university institution at an international level, reflecting the excellence and positive impact of its educational model.

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Syllabus

The complete syllabus covers a wide range of content, starting with the essentials such as HTML, CSS and JavaScript. It also delves into responsive design, the use of popular frameworks and the creation of interactive interfaces. Subsequently, emphasis will be placed on optimizing the user experience (UX), working with APIs and integrating databases, covering all the key areas for comprehensive and efficient web development. Thanks to this, professionals will acquire the tools and skills necessary to face the challenges of front-end development.

With this program you will master everything from the basic concepts to the most advanced tools that will allow you to create impressive web experiences. What are you waiting for to enroll?"

Module 1. Front End I - HTML and CSS from Scratch

1.1. HTML from Scratch
- 1.1.1. HTML. Purpose in Web Development
- 1.1.2. Structure of an HTML Document: DOCTYPE, <html>, <head>, <body>
- 1.1.3. Semantic and Content Tags: <header>, <nav>, <section>, <footer>
- 1.1.4. Essential Elements: Paragraphs (<p>), Lists (, <ol>), Links (<a>), Images (<img>)
- 1.1.5. Best Practices in HTML

1.2. Text and Multimedia Elements in HTML
- 1.2.1. Essential Text Tags: <p>, Headings, Lists, Bold and Italics
- 1.2.2. Multimedia Embedding: Attributes of <img>, <audio>, <video>
- 1.2.3. Essential Attributes for Accessibility (alt, aria-label)

1.3. HTML Forms
- 1.3.1. Form Structure and Components: <form>, <input>, <label>, <button>
- 1.3.2. Types of Input: Text, Email, Password, Submit Buttons
- 1.3.3. HTML5 Validation: Client-Side Field Validation
- 1.3.4. Forms with Basic Validation. Examples

1.4. CSS from Scratch
- 1.4.1. CSS Language from Scratch: Use and Relationship with HTML
- 1.4.2. CSS Syntax: Selectors, Properties and Values
- 1.4.3. Application of Styles in Line, Internal and External
- 1.4.4. Advanced Selectors: Of Type, Class, ID, Pseudoclasss (:hover, :focus)

1.5. Box Model in CSS
- 1.5.1. Box Model: Importance in CSS
- 1.5.2. Key Properties: Margin, Padding, Border, Width, Height
- 1.5.3. Using Box-Sizing for Precise Control of the Box Model
- 1.5.4. Design Applied to the Box Model. Examples

1.6. Typography and Text Styles in CSS
- 1.6.1. Color and Font Properties: Color, Font-Family, Font-Size
- 1.6.2. Advanced Text Styles: Bold, Italic, Alignment (text-align)
- 1.6.3. Text Spacing and Separation: Line-Height, Letter-Spacing
- 1.6.4. CSS Units of Measurement (px, em, rem) and Their Use in Typography

1.7. Layout Design with CSS - Flexbox
- 1.7.1. Flexbox: Purpose
- 1.7.2. Flexbox Properties: justify-content, align-items, flex-direction
- 1.7.3. Element Distribution and Alignment in Flexbox
- 1.7.4. Examples of Layouts with Flexbox

1.8. CSS Grid and Responsive Design with CSS
- 1.8.1. CSS Grid: Rows, Columns and Areas
- 1.8.2. Media Queries: Structure and Application on Different Devices
- 1.8.3. Responsive Design for Mobile, Tablet and Desktop
- 1.8.4. Adjusting Typography and Fluid Units in Responsive Design

1.9. Animations and Transitions in CSS
- 1.9.1. Transitions: Transition Property, Effects on :hover
- 1.9.2. Animations with CSS: Using @keyframes, Basic Animations
- 1.9.3. Techniques for Smoothing Transitions and Animations on the Web

1.10. Web Accessibility in Design
- 1.10.1. Web Accessibility: Importance
- 1.10.2. Accessible Site Design. Best Practices
- 1.10.3. ARIA Tags and Accessibility Validation Tools

Module 2. Front End II - JavaScript from Scratch

2.1. JavaScript from Scratch
- 2.1.1. JavaScript Language
- 2.1.2. Integration of JavaScript in HTML
- 2.1.3. First Program in JavaScript: “Hello World”

2.2. Variables and Data Types in JavaScript
- 2.2.1. Declaring Variables with var, let and const
- 2.2.2. Data Types: Numbers, Strings, Booleans
- 2.2.3. Converting Between Data Types

2.3. Control Structures in JavaScript
- 2.3.1. Conditional Statements: if, else if, else
- 2.3.2. Loops: for, while, do...while
- 2.3.3. Switch-case: Alternative to Multiple Conditional Statements
- 2.3.4. Break and Continue in Loops

2.4. JavaScript Functions
- 2.4.1. Function Declaration
- 2.4.2. Parameters, Return Values and Scope
- 2.4.3. Arrow Functions (=>) and Anonymous Functions
- 2.4.4. Callbacks and Recursion in Functions

2.5. DOM (Document Object Model) Manipulation with JavaScript
- 2.5.1. DOM: Structure of an HTML Document
- 2.5.2. Selecting DOM Elements (getElementById, querySelector)
- 2.5.3. Manipulating Elements: Changing Text, Styles, and Attributes
- 2.5.4. Events: Click, Input, Submit, and More

2.6. Arrays and Objects in JavaScript
- 2.6.1. Declaring and Using Arrays
- 2.6.2. Common Array Methods: push, pop, map, filter
- 2.6.3. Creating and Using Objects
- 2.6.4. Iterating over Arrays and Objects

2.7. Promises and Async in JavaScript
- 2.7.1. Async and Using Callbacks in JavaScript
- 2.7.2. Promises in JavaScript: Creation and Handling
- 2.7.3. Using Async and Await in JavaScript

2.8. APIs and Fetch in JavaScript
- 2.8.1. API in JavaScript: Purpose
- 2.8.2. Consuming REST APIs with Fetch
- 2.8.3. Handling Errors and Request Status

2.9. Local Storage in Web Browsers
- 2.9.1. Local Storage and Session Storage in Web Services and Applications
- 2.9.2. Storage and Retrieval of Data in Local Storage
- 2.9.2. IndexedDB as a Browser Database
- 2.9.3. Handling Cookies in JavaScript
- 2.9.4. Browser Storage: Examples

2.10. Best Practices in JavaScript and Tools for Developers
- 2.10.1. Code in JavaScript: Best Practices
- 2.10.2. Use of Browser Development Tools in JavaScript
- 2.10.3. Debugging and Error Handling in JavaScript

Module 3. Front End III - React.js from Scratch

3.1. React.js from Scratch
- 3.1.1. React JS as a Library for Developing Web Applications
- 3.1.2. Components and Virtual DOM in React JS: Architecture and Operation
- 3.1.3. Installation and Configuration with the NextJS Frameworks
- 3.1.4. First Component in React: "Hello World"

3.2. JavaScript XML or JSX, and Components in React
- 3.2.1. JSX: Syntax and Features
- 3.2.2. Creating Functional Components in React.js
- 3.2.3. Using Props to Pass Data Between Components
- 3.2.4. Functional Components vs. Class Components for Development in React.js

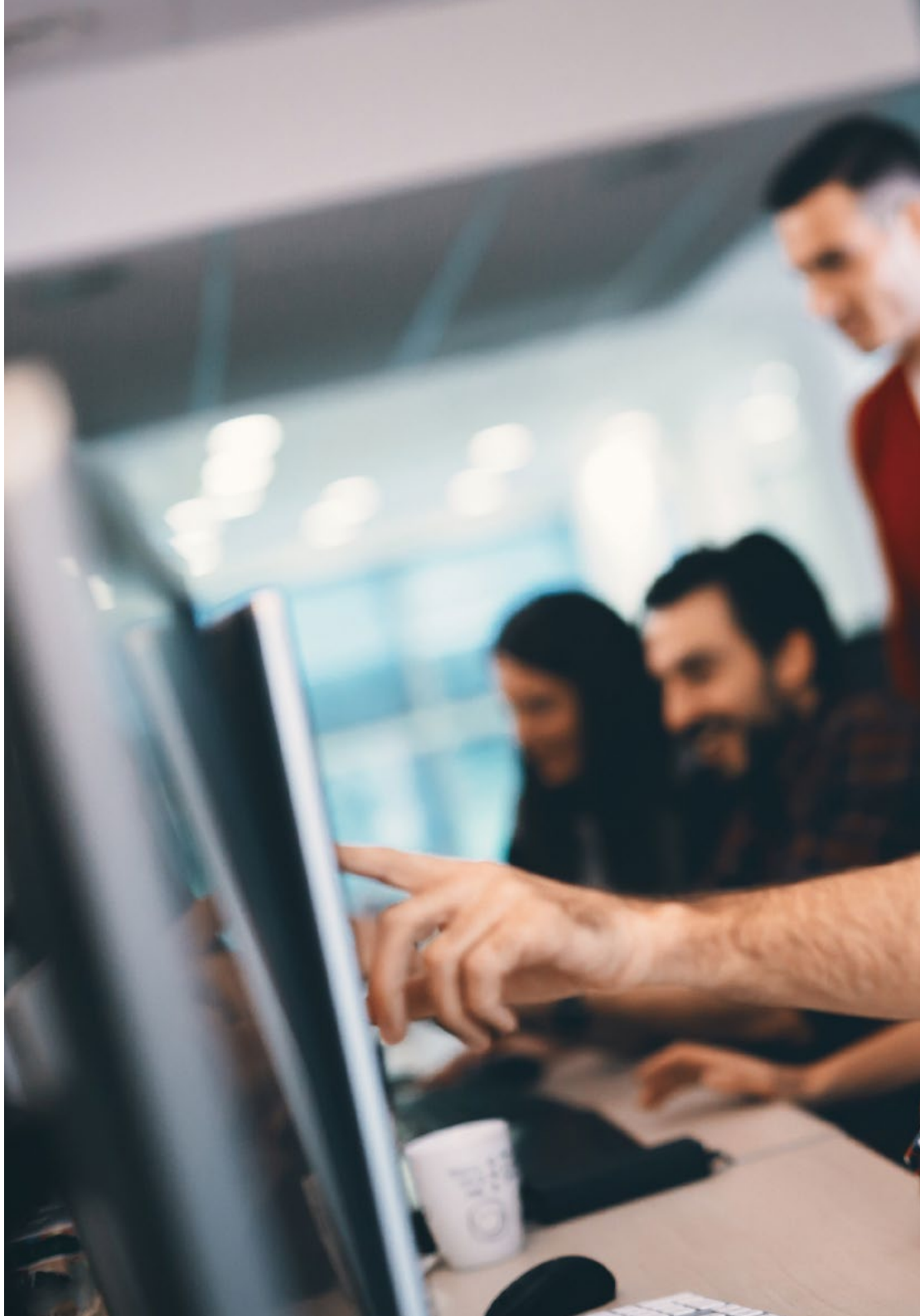
3.3. State and Events in React.js
- 3.3.1. Component State in React
- 3.3.2. Use of useState for State Management
- 3.3.3. Event Handling in React.js: onClick, onChange, Among Others
- 3.3.4. Examples of State and Event Management in React.js

3.4. Component Lifecycle and Effects in React
- 3.4.1. Component Lifecycle in React
- 3.4.2. Using useEffect to Manage Effects in React
- 3.4.3. Components with Mounting, Updating and Unmounting in React

3.5. Routing with React Router
- 3.5.1. SPA (Single Page Applications) and Routing in Web Applications
- 3.5.2. React Router Installation and Configuration
- 3.5.3. Creating Routes and Navigating Between Pages with React Router

3.6. Forms and Validation in React
- 3.6.1. Creating Interactive Forms in React
- 3.6.2. Handling User Input and Sending Data in React
- 3.6.3. Real-Time Form Validation in React

3.7. Consuming APIs in React
- 3.7.1. Consuming APIs with Fetch and Axios in React
- 3.7.2. Handling Loading, Success and Error States in React
- 3.7.3. Updating Components According to API Data in React



3.8. Reusable Components and External Libraries in React
- 3.8.1. Reusable Components in React
- 3.8.2. Creating Reusable Components in React
- 3.8.3. Using External Libraries like Material UI and Bootstrap in React

3.9. Global State Management in React
- 3.9.1. Global State Management with Native Options: Context API and Custom Hooks
- 3.9.2. External Libraries for Data Management
- 3.9.3. Comparing Approaches to Global State Management. Examples

3.10. React Application Deployment and Optimization
- 3.10.1. Preparing a React Application for Production
- 3.10.2. Deploying on Platforms such as Netlify and Vercel
- 3.10.3. Performance Optimization: Lazy Loading, Memoization, Server Components and Code Splitting
- 3.10.4. Monitoring and Maintaining React Applications in Production. Tools and Performance Analysis

Through an up-to-date and dynamic syllabus, you will master key technologies such as HTML, CSS and JavaScript. Take the plunge and be part of the world's largest online university, according to Forbes"

04

Teaching Objectives

The main objective of this program is to provide specialists with the necessary tools to become experts in the creation of dynamic, functional and attractive web interfaces. To achieve this, the program focuses on the progressive acquisition of key skills, from the basic fundamentals of front-end development to the advanced handling of modern technologies and frameworks. In turn, they will develop solid skills in languages such as HTML, CSS and JavaScript, essential for structuring and designing responsive and accessible websites. Finally, they will master the use of popular libraries and frameworks such as React or Angular, indispensable in today's job market.

Thanks to TECH you will be prepared to adapt to the constant changes in the technological environment and propose innovative solutions to the needs of users"

General Objectives

- Design attractive and functional user interfaces
- Implement responsive and adaptive web designs
- Apply principles of usability and user experience in projects
- Create reusable components using modern frameworks
- Optimize the performance of front-end applications
- Integrate APIs to manage dynamic data in the interface
- Use version control tools in collaborative projects
- Solve technical problems related to design and functionality
- Implement accessibility techniques to guarantee digital inclusion
- Keep up to date with emerging front-end trends and technologies

This program will guarantee you a complete preparation focused on professional success in the field of web development. Make the most of this unbeatable opportunity"

Specific Objectives

Module 1. Front End I - HTML and CSS from Scratch

- Identify the basic structure of an HTML document and its importance in web development
- Use HTML to organize and present content on the web in a semantic and accessible way: Web architecture
- Apply styles with CSS to improve the visual presentation of elements
- Use the CSS box model to structure and distribute elements in the interface

Module 2. Front End II - JavaScript from Scratch

- Understand syntax and data types in JavaScript
- Learn to structure code using functions and control structures
- Manipulate the DOM to interact with dynamic web pages
- Work with APIs and handle asynchrony using Promises and async/await

Module 3. Front End III - React.js from Scratch

- Understand the use of JSX to create declarative interfaces
- Learn to work with functional components, props and life cycles
- Manage local and global states using modern tools such as Context API and Redux Toolkit
- Implement routing to build single-page applications (SPAs)

05

Career Opportunities

This qualification will open up a wide range of professional opportunities in the dynamic and growing technology sector. Thanks to the knowledge acquired, graduates will be qualified to occupy positions such as front-end developers in software companies, startups, digital marketing agencies and technology departments of large corporations. Likewise, they will be able to collaborate in freelance projects, a booming modality that allows them to work with clients from all over the world. In short, the versatility of the content taught will guarantee that experts can adapt to different sectors such as e-commerce, online education and interactive application development.

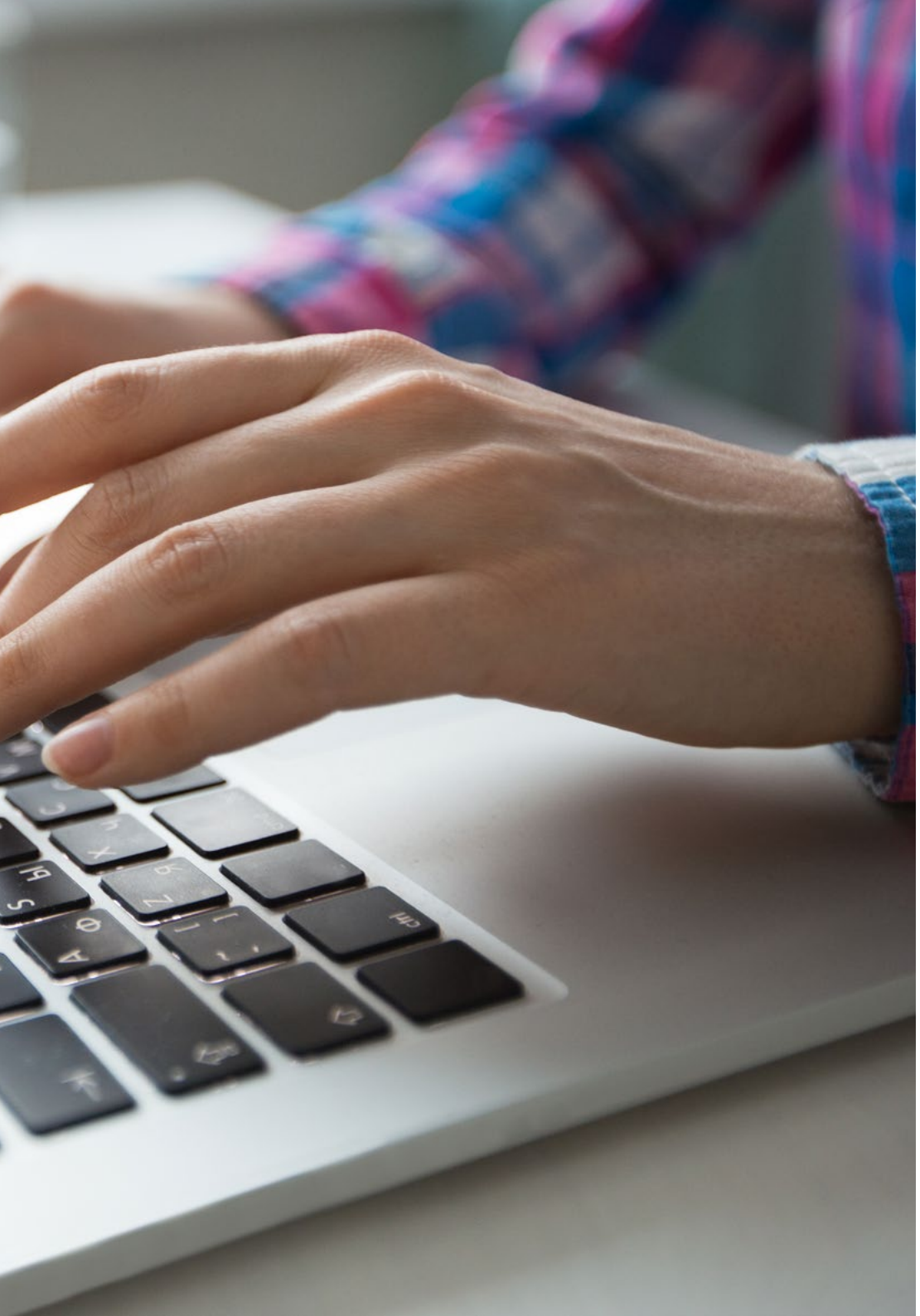
This qualification represents an investment in your professional future, opening the door to a career full of challenges and rewards in one of the most promising fields of today's technology industry"

Graduate Profile

Graduates will be well-rounded professionals, prepared to face the challenges of digital transformation in any sector. With a solid foundation in languages such as HTML, CSS and JavaScript, as well as in the use of modern frameworks, these specialists will stand out for their ability to develop intuitive and functional interfaces that improve the user experience on digital platforms. In addition, they will acquire not only advanced technical skills, but also competencies in creativity, analysis and problem solving, indispensable qualities in a highly competitive work environment.

Not only will you be ready to excel as a front-end developer, but also to lead digital transformation projects, providing creative and functional solutions that make a difference.

- **Critical thinking and problem solving:** Analyze complex situations in web development, identifying possible solutions and making strategic decisions to optimize interfaces and improve the user experience
- **Technological Adaptability:** Master the constant innovations in frameworks, tools and trends in front-end development, allowing you to adapt quickly to new professional environments
- **Teamwork and Effective Communication:** Collaborate with designers, back-end developers and project managers, achieving clear and efficient communication in interdisciplinary contexts
- **Time Management and Organization:** Plan and prioritize tasks in web development projects, ensuring the timely delivery of quality results in a demanding professional environment



After completing the program, you will be able to use your knowledge and skills in the following positions:

1. **Front-End Developer:** Responsible for designing and programming the user interface of websites and applications, ensuring that they are visually appealing and functional for users
2. **User Interface Designer (UI Designer):** Responsible for creating intuitive and attractive designs that improve the user experience on digital platforms
3. **User Experience Specialist (UX Specialist):** Analyst of user needs and optimizer of navigation and functionality of applications and websites
4. **Web Integrator:** Developer of design and programming elements to build responsive websites compatible with different devices and browsers
5. **Web Application Developer:** Responsible for building and optimizing web applications using modern languages and frameworks to guarantee high performance and usability
6. **Web Development Consultant:** Technical and strategic advisor for projects to create or improve digital platforms in companies from different sectors
7. **Website Administrator:** Website manager to guarantee its correct functioning and security
8. **JavaScript Programmer:** Responsible for developing dynamic and personalized functionalities through the use of JavaScript and its main frameworks such as React or Angular

Do you want to enhance your job prospects and growth within Front-End Development? You've come to the right place. This TECH Postgraduate Diploma will propel you to achieve your goals!"

06

Study Methodology

TECH is the world's first university to combine the **case study** methodology with **Relearning**, a 100% online learning system based on guided repetition.

This disruptive pedagogical strategy has been conceived to offer professionals the opportunity to update their knowledge and develop their skills in an intensive and rigorous way. A learning model that places students at the center of the educational process giving them the leading role, adapting to their needs and leaving aside more conventional methodologies.

TECH will prepare you to face new challenges in uncertain environments and achieve success in your career"

The student: the priority of all TECH programs

In TECH's study methodology, the student is the main protagonist.
The teaching tools of each program have been selected taking into account the demands of time, availability and academic rigor that, today, not only students demand but also the most competitive positions in the market.

With TECH's asynchronous educational model, it is students who choose the time they dedicate to study, how they decide to establish their routines, and all this from the comfort of the electronic device of their choice. The student will not have to participate in live classes, which in many cases they will not be able to attend. The learning activities will be done when it is convenient for them. They can always decide when and from where they want to study.

"At TECH you will NOT have live classes (which you might not be able to attend)"

The most comprehensive study plans at the international level

TECH is distinguished by offering the most complete academic itineraries on the university scene. This comprehensiveness is achieved through the creation of syllabi that not only cover the essential knowledge, but also the most recent innovations in each area.

By being constantly up to date, these programs allow students to keep up with market changes and acquire the skills most valued by employers. In this way, those who complete their studies at TECH receive a comprehensive education that provides them with a notable competitive advantage to further their careers.

And what's more, they will be able to do so from any device, pc, tablet or smartphone.

> *TECH's model is asynchronous, so it allows you to study with your pc, tablet or your smartphone wherever you want, whenever you want and for as long as you want"*

Case Studies and Case Method

The case method has been the learning system most used by the world's best business schools. Developed in 1912 so that law students would not only learn the law based on theoretical content, its function was also to present them with real complex situations. In this way, they could make informed decisions and value judgments about how to resolve them. In 1924, Harvard adopted it as a standard teaching method.

With this teaching model, it is students themselves who build their professional competence through strategies such as Learning by Doing or Design Thinking, used by other renowned institutions such as Yale or Stanford.

This action-oriented method will be applied throughout the entire academic itinerary that the student undertakes with TECH. Students will be confronted with multiple real-life situations and will have to integrate knowledge, research, discuss and defend their ideas and decisions. All this with the premise of answering the question of how they would act when facing specific events of complexity in their daily work.

Relearning Methodology

At TECH, case studies are enhanced with the best 100% online teaching method: Relearning.

This method breaks with traditional teaching techniques to put the student at the center of the equation, providing the best content in different formats. In this way, it manages to review and reiterate the key concepts of each subject and learn to apply them in a real context.

In the same line, and according to multiple scientific researches, reiteration is the best way to learn. For this reason, TECH offers between 8 and 16 repetitions of each key concept within the same lesson, presented in a different way, with the objective of ensuring that the knowledge is completely consolidated during the study process.

Relearning will allow you to learn with less effort and better performance, involving you more in your specialization, developing a critical mindset, defending arguments, and contrasting opinions: a direct equation to success.

A 100% online Virtual Campus with the best teaching resources

In order to apply its methodology effectively, TECH focuses on providing graduates with teaching materials in different formats: texts, interactive videos, illustrations and knowledge maps, among others. All of them are designed by qualified teachers who focus their work on combining real cases with the resolution of complex situations through simulation, the study of contexts applied to each professional career and learning based on repetition, through audios, presentations, animations, images, etc.

The latest scientific evidence in the field of Neuroscience points to the importance of taking into account the place and context where the content is accessed before starting a new learning process. Being able to adjust these variables in a personalized way helps people to remember and store knowledge in the hippocampus to retain it in the long term. This is a model called Neurocognitive context-dependent e-learning that is consciously applied in this university qualification.

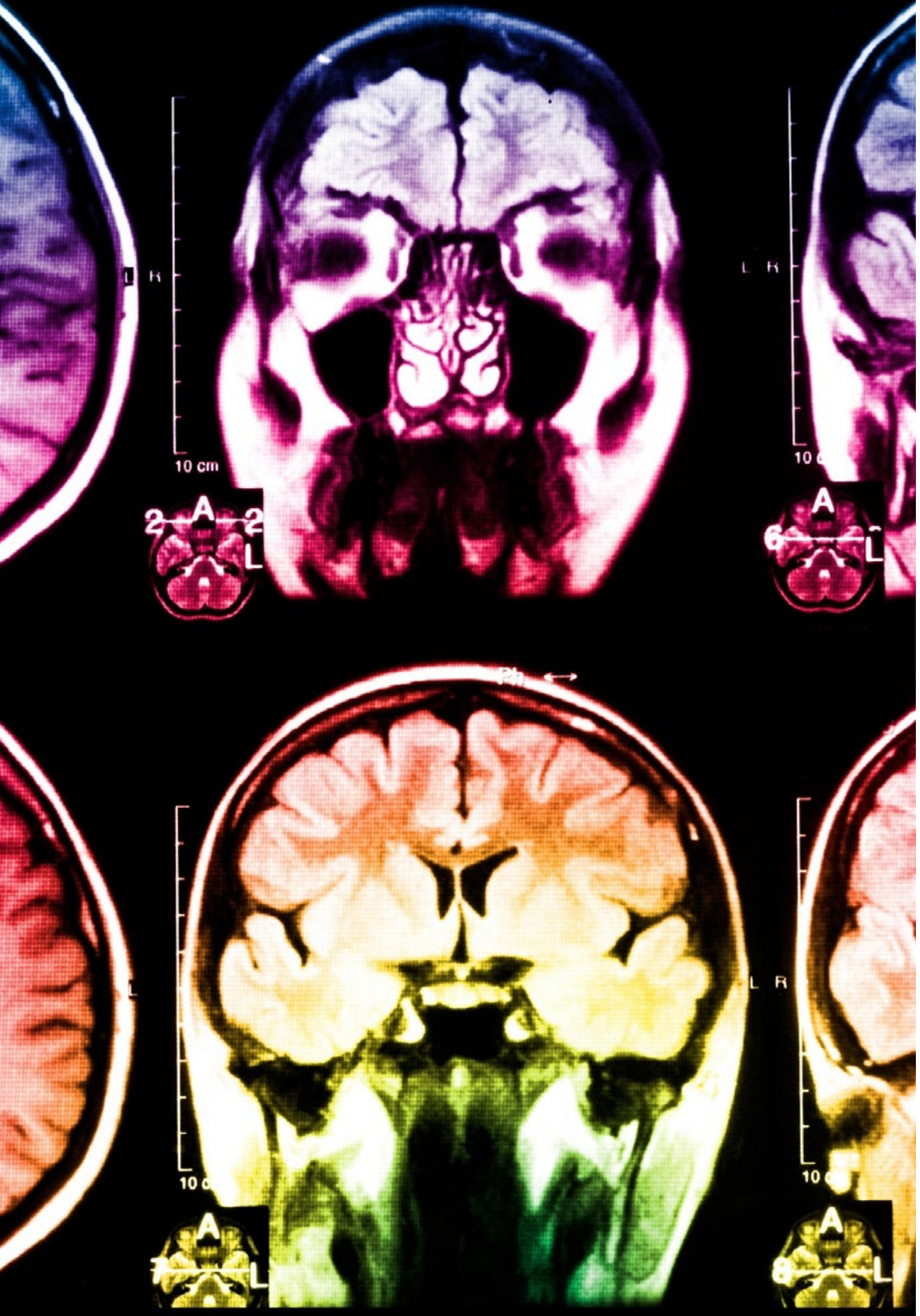
In order to facilitate tutor-student contact as much as possible, you will have a wide range of communication possibilities, both in real time and delayed (internal messaging, telephone answering service, email contact with the technical secretary, chat and videoconferences).

Likewise, this very complete Virtual Campus will allow TECH students to organize their study schedules according to their personal availability or work obligations. In this way, they will have global control of the academic content and teaching tools, based on their fast-paced professional update.

"The online study mode of this program will allow you to organize your time and learning pace, adapting it to your schedule"

The effectiveness of the method is justified by four fundamental achievements:

1. Students who follow this method not only achieve the assimilation of concepts, but also a development of their mental capacity, through exercises that assess real situations and the application of knowledge.
2. Learning is solidly translated into practical skills that allow the student to better integrate into the real world.
3. Ideas and concepts are understood more efficiently, given that the example situations are based on real-life.
4. Students like to feel that the effort they put into their studies is worthwhile. This then translates into a greater interest in learning and more time dedicated to working on the course.



The university methodology top-rated by its students

The results of this innovative teaching model can be seen in the overall satisfaction levels of TECH graduates.

The students' assessment of the teaching quality, the quality of the materials, the structure of the program and its objectives is excellent. Not surprisingly, the institution became the top-rated university by its students according to the global score index, obtaining a 4.9 out of 5.

Access the study contents from any device with an Internet connection (computer, tablet, smartphone) thanks to the fact that TECH is at the forefront of technology and teaching.

You will be able to learn with the advantages that come with having access to simulated learning environments and the learning by observation approach, that is, Learning from an expert.

As such, the best educational materials, thoroughly prepared, will be available in this program:

Study Material

All teaching material is produced by the specialists who teach the course, specifically for the course, so that the teaching content is highly specific and precise.

This content is then adapted in an audiovisual format that will create our way of working online, with the latest techniques that allow us to offer you high quality in all of the material that we provide you with.

Practicing Skills and Abilities

You will carry out activities to develop specific competencies and skills in each thematic field. Exercises and activities to acquire and develop the skills and abilities that a specialist needs to develop within the framework of the globalization we live in.

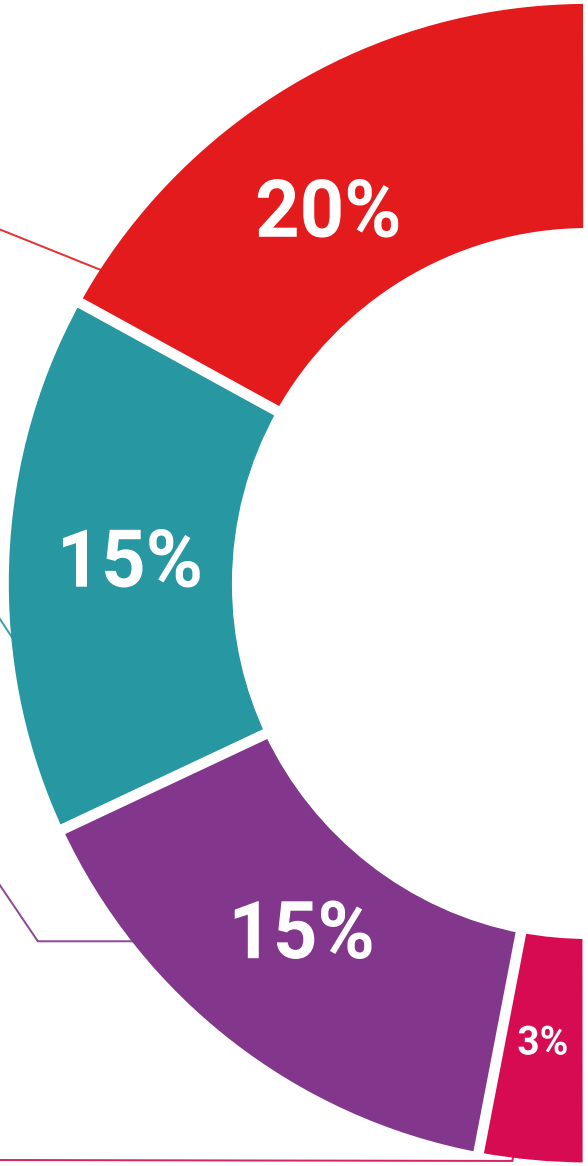
Interactive Summaries

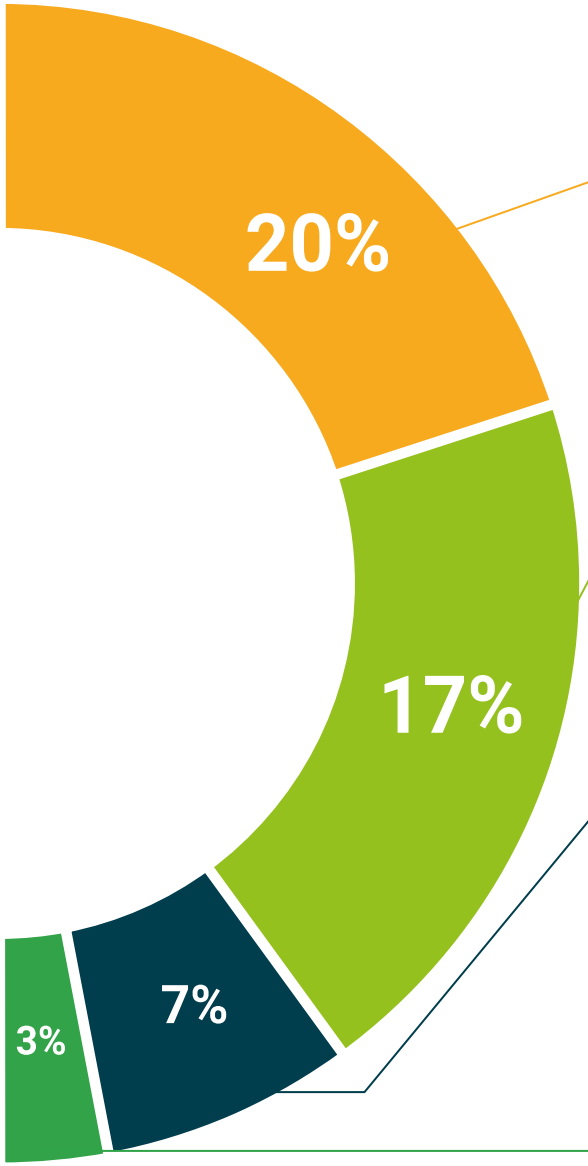
We present the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

This exclusive educational system for presenting multimedia content was awarded by Microsoft as a "European Success Story".

Additional Reading

Recent articles, consensus documents, international guides... In our virtual library you will have access to everything you need to complete your education.





Case Studies

Students will complete a selection of the best case studies in the field. Cases that are presented, analyzed, and supervised by the best specialists in the world.

Testing & Retesting

We periodically assess and re-assess your knowledge throughout the program. We do this on 3 of the 4 levels of Miller's Pyramid.

Classes

There is scientific evidence suggesting that observing third-party experts can be useful.

Learning from an expert strengthens knowledge and memory, and generates confidence for future difficult decisions.

Quick Action Guides

TECH offers the most relevant contents of the course in the form of worksheets or quick action guides. A synthetic, practical and effective way to help students progress in their learning.

07

Teaching Staff

The teaching staff is made up of a team of highly qualified professionals with a solid track record in web design and development. In fact, these experts not only stand out for their experience in international projects and their mastery of the most advanced technologies, but also for their teaching ability, ensuring clear, practical and enriching instruction. Thanks to their active involvement in the industry, the faculty provides an up-to-date and realistic view of the demands of the labor market.

The excellence of the teaching staff is complemented by an innovative methodology that encourages dynamic learning and active participation. Take the plunge and enroll now!"

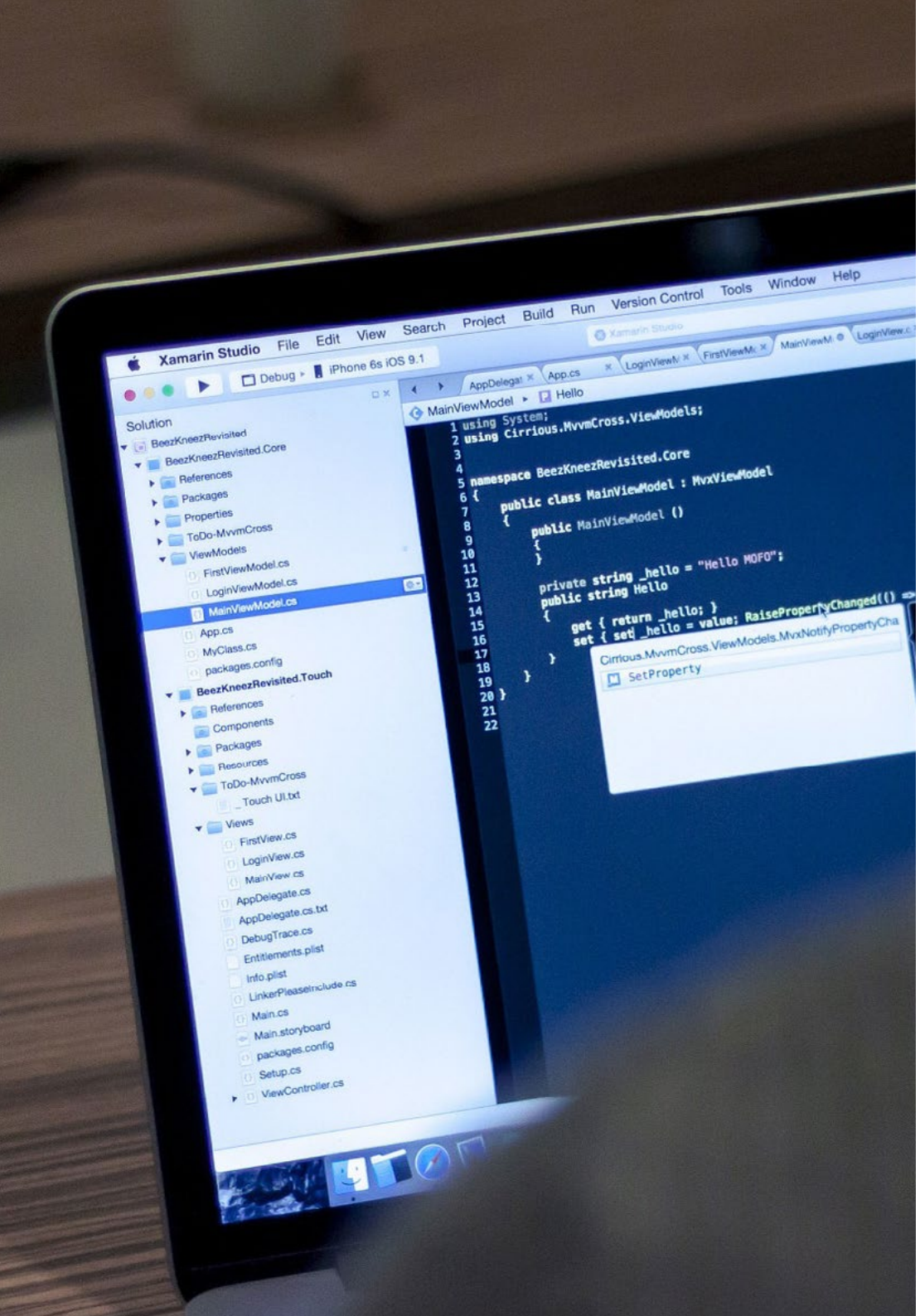
Management

Dr. Lucas Cuesta, Juan Manuel

- Senior Software Engineer and Analyst at Indizen – Believe in Talent
- Senior Software Engineer and Analyst at Krell Consulting and IMAGiNA Artificial Intelligence
- Software Engineer at Intel Corporation
- Software Engineer at Intelligent Dialog Systems
- PhD in Electronic Systems Engineering for Intelligent Environments from the Polytechnic University of Madrid
- Graduate in Telecommunications Engineering at the Polytechnic University of Madrid
- Master's Degree in Electronic Systems Engineering for Intelligent Environments from the Polytechnic University of Madrid

Mr. Márquez Ruiz de Lacanal, Juan Antonio

- Software Developer at GTD Defense & Security Solutions
- Software Developer at Solera Inc
- Development and Research Engineer at GRVC Sevilla
- Co-founder of Unmute
- Co-founder of VR Educa
- Academic Exchange in Engineering and Entrepreneurship at the University of California, Berkeley
- Degree in Industrial Engineering from the University of Sevilla



Professors

Ms. Domínguez Valderrama, Desirée

- *Lead Product & Growth Strategist*
- Master's Degree in Graphic Design and Creativity from the Business School of the Sevilla Chamber of Commerce
- Expert in UX/UI Designer from CoderHouse}
- Expert in Technology and Entrepreneurship

Dr. Luna Perejón, Francisco

- Specialist in Computer Architecture and Technology
- PhD in Computer Engineering from the University of Sevilla
- Master's Degree in Computer Engineering from the University of Sevilla
- Degree in Health Engineering from the University of Sevilla
- Degree in Computer Engineering and Computer Technology from the University of Sevilla
- Member of: Robotics and Computer Technology Research Group (TEP108)

A unique, key and decisive learning experience to boost your professional development"

08

Certificate

This Postgraduate Diploma in Front-End Development from Scratch guarantees, in addition to the most rigorous and up-to-date program, access to an Postgraduate Diploma issued by TECH Global University.

Successfully complete this program and receive your university qualification without having to travel or fill out laborious paperwork"

This private qualification will allow you to obtain a diploma for the **Postgraduate Diploma in Front-End Development from Scratch** endorsed by **TECH Global University,** the world's largest online university.

TECH Global University, is an official European University publicly recognized by the Government of Andorra ***(official bulletin)***. Andorra is part of the European Higher Education Area (EHEA) since 2003. The EHEA is an initiative promoted by the European Union that aims to organize the international training framework and harmonize the higher education systems of the member countries of this space. The project promotes common values, the implementation of collaborative tools and strengthening its quality assurance mechanisms to enhance collaboration and mobility among students, researchers and academics.

This **TECH Global University** private qualification, is a European program of continuing education and professional updating that guarantees the acquisition of competencies in its area of knowledge, providing a high curricular value to the student who completes the program.

Title: **Postgraduate Diploma in Front-End Development from Scratch**

Modality: **online**

Duration: **6 months**

Accreditation: **18 ECTS**


tech global university

Mr./Ms. _____, with identification document _____
has successfully passed and obtained the title of:

Postgraduate Diploma in Front-End Development from Scratch

This is a private qualification of 540 hours of duration equivalent to 18 ECTS, with a start date of dd/mm/yyyy and an end date of dd/mm/yyyy.

TECH Global University is a university officially recognized by the Government of Andorra on the 31st of January of 2024, which belongs to the European Higher Education Area (EHEA).

In Andorra la Vella, on the 28th of February of 2024

Dr. Pedro Navarro Illana
Dean

Unique TECH Code: AFWORD23S techtitute.com/certificates

*Apostille Convention. In the event that the student wishes to have their paper diploma issued with an apostille, TECH Global University will make the necessary arrangements to obtain it, at an additional cost.

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Postgraduate Diploma
Front-End Development from Scratch

- Modality: **online**
- Duration: **6 months**
- Certificate: **TECH Global University**
- Accreditation: **18 ECTS**
- Schedule: **at your own pace**
- Exams: **online**

Postgraduate Diploma

Front-End Development from Scratch

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