Postgraduate Diploma
Advanced Web Application Development

tech global university

Postgraduate Diploma
Advanced Web Application Development

- » 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-advanced-web-application-development**

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01
Introduction to the Program

Over the last decade, web application development has undergone significant evolution, driven by growing internet access and the widespread adoption of mobile devices. According to a report published by Statista, mobile devices generated almost 60% of global web traffic, particularly in Africa, where approximately 74% of visits were made via these devices. With this in mind, TECH has designed this comprehensive postgraduate program that will provide the knowledge and skills necessary to develop innovative and competitive solutions. Through a 100% online methodology and an up-to-date syllabus, specialists will be prepared to lead the future of this innovative sector.

tech

"

You will master React, Angular, APIs, and scalable architecture with a 100% online Postgraduate Diploma designed to adapt to your pace. This will boost your career in the technology industry. Enroll now and take your skills to the next level!"

Advanced Web Application Development is crucial in the digital age because it enables the creation of faster, more secure, scalable, and interactive platforms tailored to the current needs of users and businesses. Due to the rise of e-commerce, Artificial Intelligence, the cloud, and the Internet of Things (IoT), advanced web applications have emerged as fundamental aspects for ensuring an optimal user experience and efficient technological infrastructure.

To respond to these demands, TECH has designed the Advanced Web Application Development program, a high-level academic syllabus that will provide key tools to excel in this field. Throughout the university program, designed with a comprehensive approach, fundamental topics such as advanced JavaScript programming, REST and GraphQL API integration, the use of NoSQL databases, and the optimization of interactive interfaces with modern frameworks will be addressed. In this way, professionals will acquire technical knowledge and a strategic vision that will allow them to advance their careers in an increasingly digitalized and competitive market.

By acquiring these specialized skills, graduates will find a wide range of opportunities in the technology industry. They will be ready to take on highly sought-after roles while quickly adapting to market needs, whether to launch their own business, work at leading technology companies, or even pursue a career in consulting and digital project management.

In addition, this program will be delivered 100% online, providing total flexibility to combine training with other responsibilities. Thanks to the Relearning methodology, based on the repetition of key concepts, students will achieve a deep and lasting understanding of the content, optimizing their assimilation process. Finally, permanent access to academic materials will promote independent and dynamic preparation, tailored to the individual needs of each expert.

This **Postgraduate Diploma in Advanced Web Application Development** contains the most complete and up-to-date program on the market. The most important features include:

- The development of case studies presented by experts in Software
- 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 Advanced Web Application Development
- 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

The applications of the future need developers like you. With this university program, you will learn how to create innovative platforms with the latest web technologies. What are you waiting for to take the next step?"

You will specialize in advanced web development using the most innovative technologies. Through a practical and up-to-date approach, you will transform your digital future.

You will acquire key skills in scalable architecture, performance optimization, and web security through an accessible and dynamic learning model.

"*With expert teachers and cutting-edge content, this university program will prepare you to create powerful and secure web applications. Start today!"*

The teaching staff includes professionals from the field of software, 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"

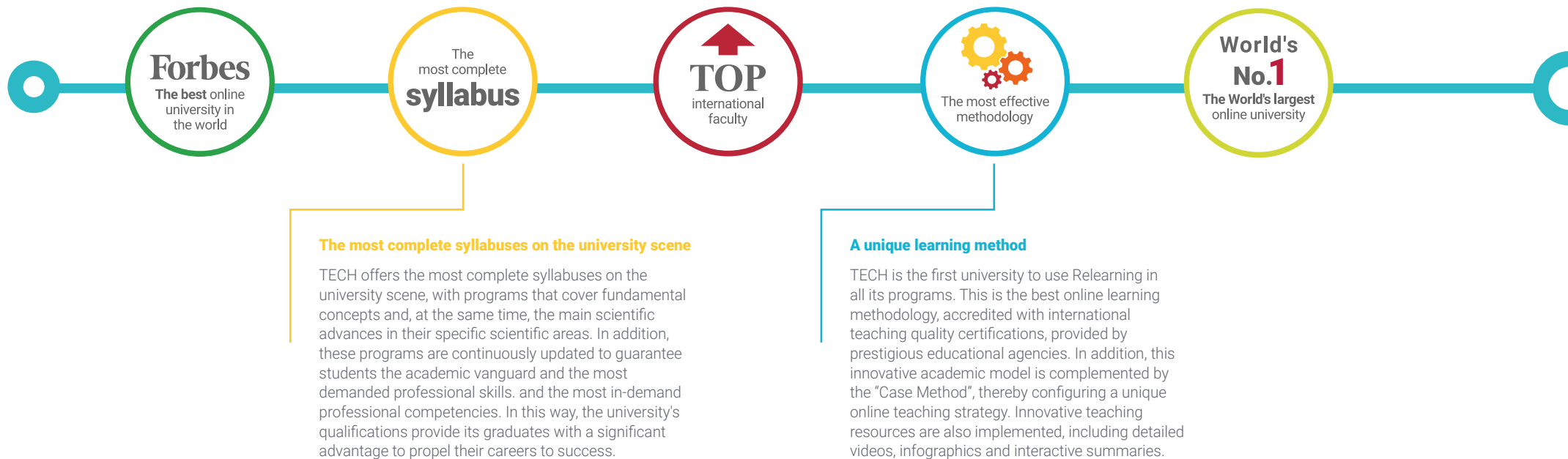**The world's best online university, according to FORBES**

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.

Forbes

The best online university in the world

The most complete **syllabus**

TOP international faculty

The most effective methodology

World's No.1 The World's largest online university

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.

G
Google Partner
PREMIER 2023

NBA
The Official
Online University
of the **NBA**

4.9/5
★★★★★
★ global score

99%
maximun
employability
guaranteed

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.
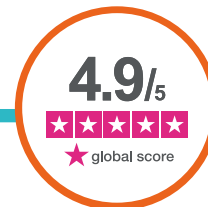
The top-rated university by its students

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.
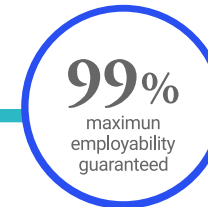
03
Syllabus

Throughout this educational program, professionals will delve into the use of advanced JavaScript, frameworks, and development with TypeScript, REST APIs, and GraphQL. They will also explore NoSQL databases such as MongoDB and Firebase and the implementation of Progressive Web Apps (PWA). They will also address web application security, authentication with OAuth and JWT, performance optimization with Webpack or Vite, microservice integration, and cloud deployment with AWS and Google Cloud. All this through a practical and up-to-date approach that will strengthen their ability to create innovative and efficient solutions.

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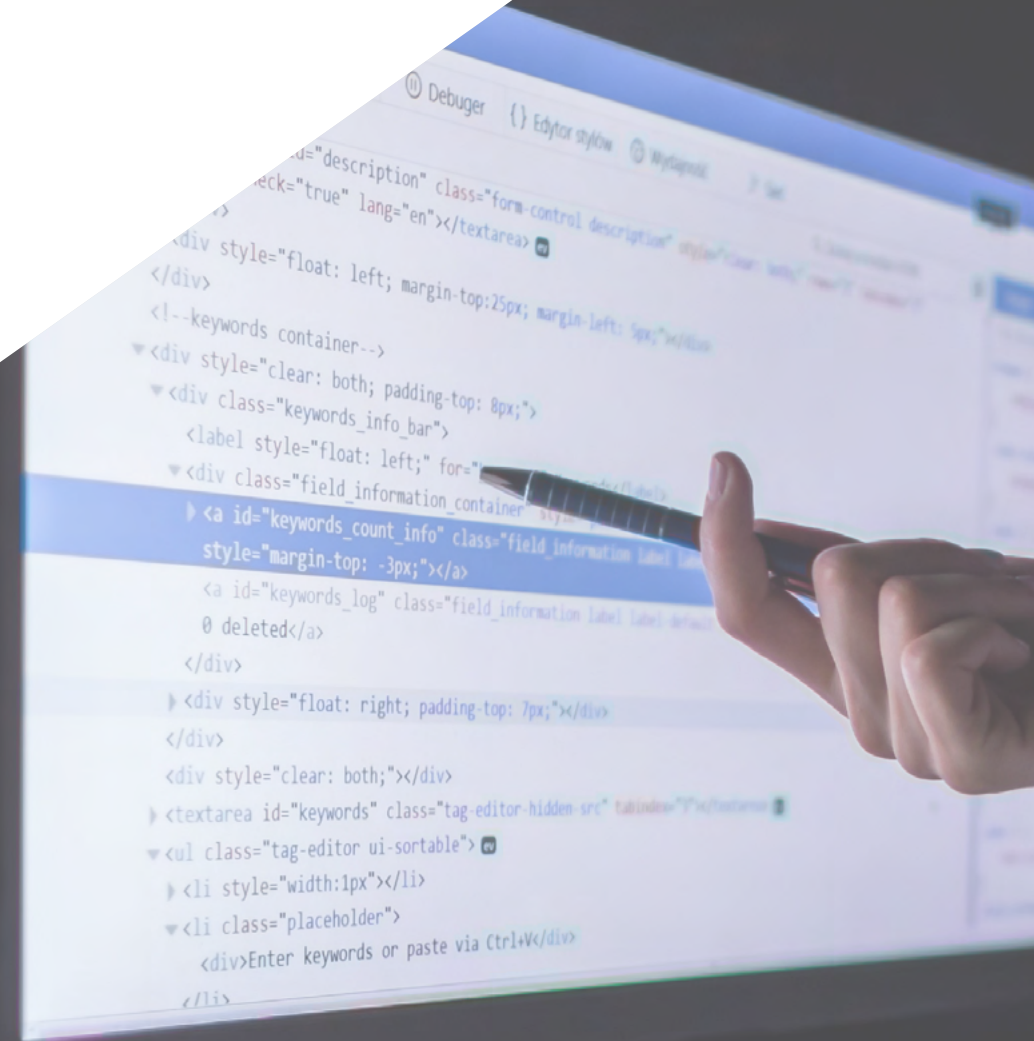
Thanks to a structured syllabus geared towards market demands, this university program will enhance your professional profile, making you stand out in a highly competitive and constantly evolving environment"

Module 1. Advanced Back-End Development for Seniors

1.1. Advanced Back-End Development
- 1.1.1. Back-End Roles and Responsibilities
- 1.1.2. Key Technologies in Back-End Environments
- 1.1.3. Examples of Successful Back-End Applications

1.2. REST and GraphQL APIs
- 1.2.1. RESTful API Design and Consumption
- 1.2.2. GraphQL: Advantages
- 1.2.3. Integration Case Studies

1.3. Advanced Databases
- 1.3.1. SQL Query Optimization
- 1.3.2. Indexing and Partitioning
- 1.3.3. NoSQL Databases

1.4. Back-End Authentication and Authorization
- 1.4.1. Use of JWT and OAuth2
- 1.4.2. Secure Session Management
- 1.4.3. Access Control Strategies

1.5. Back-End Scalability and Performance
- 1.5.1. Caching with Redis
- 1.5.2. Load Balancing in Back-End Applications
- 1.5.3. Monitoring and Key Metrics

1.6. Back-End Testing and Code Quality
- 1.6.1. Types of Tests: Unit, Integration, E2E
- 1.6.2. Automation Tools
- 1.6.3. Code Coverage and Analysis

1.7. Back-End Service Integration
- 1.7.1. Connecting to External Services
- 1.7.2. Error Handling in Integrations
- 1.7.3. Retry and Timeout Strategies

1.8. Asynchronous Task Management in Backend
- 1.8.1. Background Tasks
- 1.8.2. Tools such as Celery and RabbitMQ
- 1.8.3. Common Use Cases

1.9. Microservices in Backend
- 1.9.1. Design and Communication between Microservices
- 1.9.2. Orchestration and Monitoring
- 1.9.3. Practical Implementation with Frameworks

1.10. Deployment and Maintenance in Backend
- 1.10.1. Deployment Automation
- 1.10.2. Version Management and Rollback
- 1.10.3. Production Monitoring

Module 2. Advanced Front-End for Seniors

2.1. Modern Frameworks
- 2.1.1. Vue.js: State, Components, and Lifecycle
- 2.1.2. Svelte, Comparison with React
- 2.1.3. Modern Development Tools (Vite, Webpack)

2.2. Front-End Performance Optimization
- 2.2.1. Lazy Loading and Code Splitting
- 2.2.2. Efficient Global State Management
- 2.2.3. Progressive Rendering Techniques

2.3. Automated Front-End Testing
- 2.3.1. Tools such as Jest and Cypress
- 2.3.2. Component and Functionality Testing
- 2.3.3. Automated Integration Testing

2.4. Advanced Development with React
- 2.4.1. Advanced and Customized Hooks
- 2.4.2. Context API and Redux for State Management
- 2.4.3. Design Patterns in Components

2.5.   Advanced Animations in Frontend
    2.5.1.   Use of Libraries such as GSAP and Framer Motion
    2.5.2.   Complex Transitions in SPAs
    2.5.3.   Animation Optimization for Performance

2.6.   Progressive Web App (PWA) Development
    2.6.1.   Progressive Web Apps (PWA)
    2.6.2.   Service Workers and Offline Storage
    2.6.3.   Optimization Strategies for Mobile Devices

2.7.   Advanced Form Management in Frontend
    2.7.1.   Complex Form Validations
    2.7.2.   Nested Data Handling
    2.7.3.   Synchronization with APIs

2.8.   API Consumption in Frontend
    2.8.1.   Integration with REST and GraphQL
    2.8.2.   Error Handling and Loading States
    2.8.3.   Request Optimization Strategies

2.9.   Visual Testing and Accessibility in Frontend
    2.9.1.   Responsive Design Testing
    2.9.2.   Web Accessibility Validation
    2.9.3.   Tools such as Lighthouse

2.10.   Front-End Deployment and Monitoring
    2.10.1.   Deployment on Platforms such as Netlify or Vercel
    2.10.2.   Configuration for Production Environments
    2.10.3.   Performance Monitoring with Advanced Tools

Module 3. Advanced Full-Stack Development for Seniors

3.1.   MEAN and MERN Stacks

    3.1.1.   Key Components of Both Stacks

    3.1.2.   Differences between MEAN and MERN

    3.1.3.   Use Cases for Each Stack

3.2.   Full-Stack Project Configuration

    3.2.1.   Initializing Projects with Node.js

    3.2.2.   Configuring MongoDB and Express

    3.2.3.   Initial Integration with Angular or React

3.3.   Backend with Node.js and Express

    3.3.1.   Creating RESTful Servers

    3.3.2.   Middleware Management

    3.3.3.   Implementing Dynamic Routes

3.4.   Frontend with Angular or React

    3.4.1.   Structuring Front-End Projects

    3.4.2.   Creating Reusable Components

    3.4.3.   Communicating with the Backend via APIs

3.5.   State Management in Frontend

    3.5.1.   Redux and NgRx

    3.5.2.   Shared State Management Between Components

    3.5.3.   Data Persistence in the Frontend

3.6.   Authentication and Authorization in Full-Stack Projects

    3.6.1.   Implementation of User Login and Registration

    3.6.2.   Front-End Route Protection

    3.6.3.   Role and Permission Validation

3.7.   Testing in Full Stack Projects

    3.7.1.   Back-End and Front-End Unit Testing

    3.7.2.   End-to-end Test Integration

    3.7.3.   Test Automation with Modern Tools

In a flexible way and with TECH's Relearning methodology, you will boost your professional growth. Join this program and make a difference in the digital world"

04
Teaching Objectives

This program is designed to provide a comprehensive and specialized overview of the creation of high-performance digital platforms. Through an innovative approach, the university program seeks not only to consolidate fundamental knowledge, but also to promote mastery of emerging technologies and innovative methodologies. As a result, professionals will acquire advanced skills that will enable them to develop interactive and dynamic interfaces. In this way, they will master the tools necessary to innovate, optimize processes, and stand out in a constantly evolving technological sector.

Do you want to face the challenges of current and future web development? This Postgraduate Diploma will provide you with the tools you need to innovate, optimize processes, and stand out in a constantly evolving technological sector"

General Objectives

- Provide in-depth knowledge of advanced software architectures and their applicability in professional environments
- Provide a comprehensive overview of modern back-end development, covering architectures, tools, and best practices
- Develop efficient and scalable front-end applications with modern technologies
- Apply advanced data science and machine learning techniques
- Understand the fundamentals of cybersecurity and its importance in software development
- Manage the structure and differences between MEAN and MERN stacks
- Master the fundamental principles of DevOps and its impact on software development
- Implement the principles of the agile manifesto in development environments
- Manage the differences and benefits of native and cross-platform mobile development
- Analyze the fundamental concepts of Cloud computing and its impact on application development and operation

Specific Objectives

Module 1. Advanced Back-End Development for Seniors
- Design efficient and scalable RESTful and GraphQL APIs
- Optimize SQL queries and manage high-performance NoSQL databases
- Implement secure authentication using JWT and Oauth2
- Configure cache strategies with Redis and load balancing on back-end servers

Module 2. Advanced Front-End for Seniors
- Implement front-end applications with Vue.js, Svelte, and React
- Optimize performance using lazy loading, code splitting, and progressive rendering
- Automate unit, integration, and visual testing with tools such as Jest and Cypress
- Manage global state efficiently with Redux and Context API

Module 3. Advanced Full-Stack Development for Seniors
- Set up Full-Stack development environments with Node.js, MongoDB, and Express
- Develop RESTful servers and manage middleware in backend applications
- Implement frontend with Angular or React and establish communication with APIs
- Manage application status using Redux or NgRx

05
Career Opportunities

This program will open up a wide they will significantly expand their job opportunities in a highly competitive and constantly evolving sector. Thanks to the specialization acquired in cutting-edge technologies, graduates will be able to access strategic positions in technology companies, startups, and large corporations seeking to optimize their digital platforms. In this regard, career opportunities include key roles such as fron-tend, back-end, or full stack developer, software architect, DevOps engineer, and web security specialist, among others.

"

This program will not only provide the necessary technical knowledge, but will also boost employability and access to highly dynamic and competitive work environments"

Graduate Profile

Graduates will have a competitive and specialized profile that will allow them to stand out in an increasingly demanding work environment. Thanks to their mastery of technologies such as advanced JavaScript, modern frameworks, SQL and NoSQL databases, development with REST or GraphQL APIs, and cloud deployment with AWS and Google Cloud, these professionals will be prepared to lead large-scale web development projects. Likewise, their knowledge of computer security, performance optimization, and scalable architecture will enable them to design robust and efficient digital solutions tailored to the needs of companies in any sector.

Not only will you strengthen your technical skills, but you will also enhance your ability to innovate and solve problems in the field of web development.

- **Critical Thinking and Problem-Solving:** analyze complex requirements, identify technical challenges, and propose innovative solutions in the development of advanced web applications

- **Teamwork and Collaboration Management:** excel in multidisciplinary environments, communicate effectively with designers, engineers, and other professionals, and coordinate the development of successful web projects

- **Adaptability and Continuous Learning:** handle new technologies, frameworks, and agile methodologies, ensuring professional development in line with trends in the digital sector

- **Autonomy and Decision-Making:** manage web development projects independently, evaluating optimal tools and strategies to ensure the efficiency, security, and scalability of applications
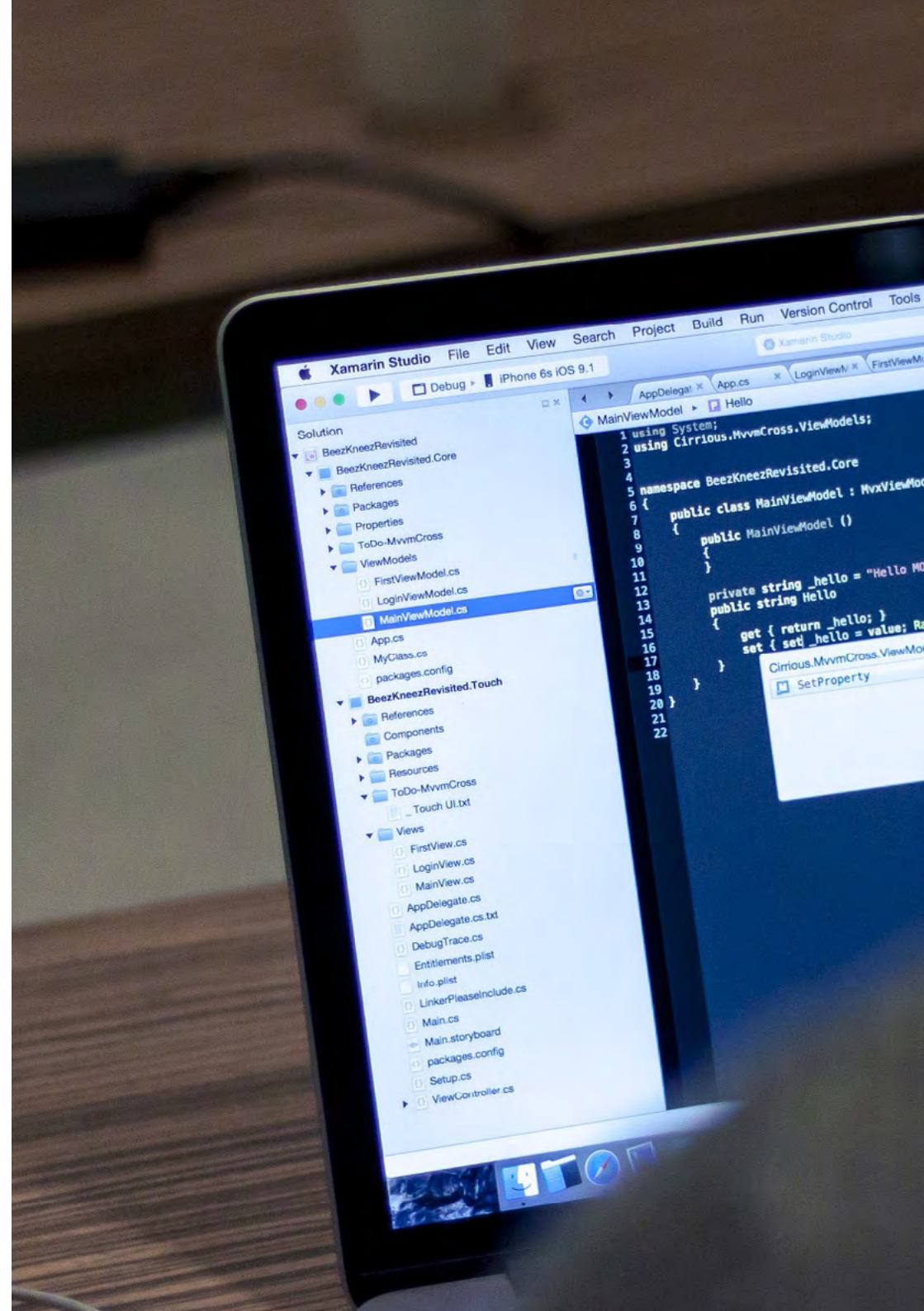
After completing the Postgraduate Diploma, you will be able to apply your knowledge and skills in the following positions:

1. **Full-Stack Developer:** creator of complete web applications, covering both frontend and backend, ensuring optimal functionality and performance.

2. **Front-End Engineer:** responsible for creating dynamic and interactive interfaces with modern frameworks such as React, Angular, or Vue.js, improving the user experience.

3. **Back-End Engineer:** responsible for developing server logic, managing databases, and implementing APIs to ensure the operability of web applications.

4. **Software Architect:** responsible for designing the structure and scalability of advanced web applications, optimizing their performance and security.

5. **API and Microservices Developer:** creator of independent and scalable services that enable efficient communication between applications and systems.

6. **DevOps Engineer:** responsible for automating development, integration, and deployment processes in the cloud, ensuring stability and efficiency in software delivery.

7. **Web Security Specialist:** responsible for implementing security strategies and protocols to protect web applications from cyber attacks and vulnerabilities.

8. **Web Development Consultant:** advising companies and startups on the implementation of efficient digital solutions tailored to their needs and objectives.

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.

01 learning from evidence

02 relearning from evidence

03 testing

04 learning from an expert

05 neurocognitive context dependent learning

06 Von-Restorff effect

07 case based learning through storytelling

08 competencies testing (retesting)

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.

20%

15%

15%

3%

20%

17%

7%

3%

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.

06

Teaching Staff

The teaching staff for this academic program is made up of elite professionals with extensive experience in the technology sector. Thanks to their experience in leading companies and innovative projects, these specialists will offer an up-to-date and practical overview of the most advanced trends in web development. In this way, students will not only acquire technical knowledge, but also develop strategic skills for problem solving and optimizing the performance of their applications.

The combination of a rigorous academic program and the experience of prestigious faculty members will ensure that you acquire the skills necessary to lead successful web development projects"

Management

Mr. Utrilla Utrilla, Rubén

- Technology Project Manager at Serquo
- Fullstack Developer at ESSP
- Junior Fullstack Developer at Sinis Technology S.L
- Junior Fullstack Developer at Cantoblanco Polytechnic School Campus
- Master's Degree in AI and Innovation by Founderz
- Degree in Computer Engineering from the Autonomous University of Madrid
- Google Cloud Developer course in Google Academic Program

Professors

Mr. Gallegos Quishpe, Darío Fernando

- Senior iOS Developer at Tecdata
- iOS Developer at Sandav Consulting
- iOS Developer at BBVA
- Hybrid Developer at IMBox
- Bachelor's Degree in Computer Engineering from the Complutense University of Madrid Certification in Mobile Device Development with Android by the Community of Madrid
- Certificate in Big Data & Machine Learning from the Complutense University of Madrid

Ms. Jiménez Monar, Angélica Liceth

- Software Developer at Serquo
- Technical Support Specialist at Tecnocom
- Degree in Computer Engineering from the Autonomous University of Madrid
- Higher Degree in Network Computer Systems Administration

Mr. González Ávila, José Luis

- Head of Digital Transformation Project for Public Services in the Canary Islands Government
- Forensic Expert in Information Technology at Juan Antonio Rodríguez
- Project Manager at Aguas y Estructuras S.A.
- Senior Technology Consultant at Plexus Tecnologías
- Analyst at Novasoft Soluciones Canarias S.A
- Bachelor's Degree in Computer Engineering from the University of La Laguna
- Technical Degree in Management Computer Engineering from the University of La Laguna
- Expert in Big Data in Public Administration (R.FD.14.IN.24) from the Canary Islands Institute of Public Administration
- Expert in European Project Management (R.FD.62.AB.24) from the Canary Islands Institute of Public Administration
- Specialist in Power BI Data Visualization Tool for Decision Making by Structuralia
- Expert in Scrum Manager – eLearning by Scrum Master
- Expert in Management and Marketing of Innovative Products by Human Development Human Resources and Training Consulting
- Expert in the Use of the AVIP Tool for Teachers-Tutors by INTECCA

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

Certificate

This Postgraduate Diploma in Advanced Web Application Development guarantees students, in addition to the most rigorous and up-to-date education, access to a diploma for the 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 Advanced Web Application Development** 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 Advanced Web Application Development**

Modality: **online**

Duration: **6 months**

Accreditation: **18 ECTS**

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

Postgraduate Diploma in Advanced Web Application Development

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
Advanced Web Application Development

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

Postgraduate Diploma
Advanced Web Application Development

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