

Internship Program

Front-End Full-Stack Developer Programming



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Developer Programming

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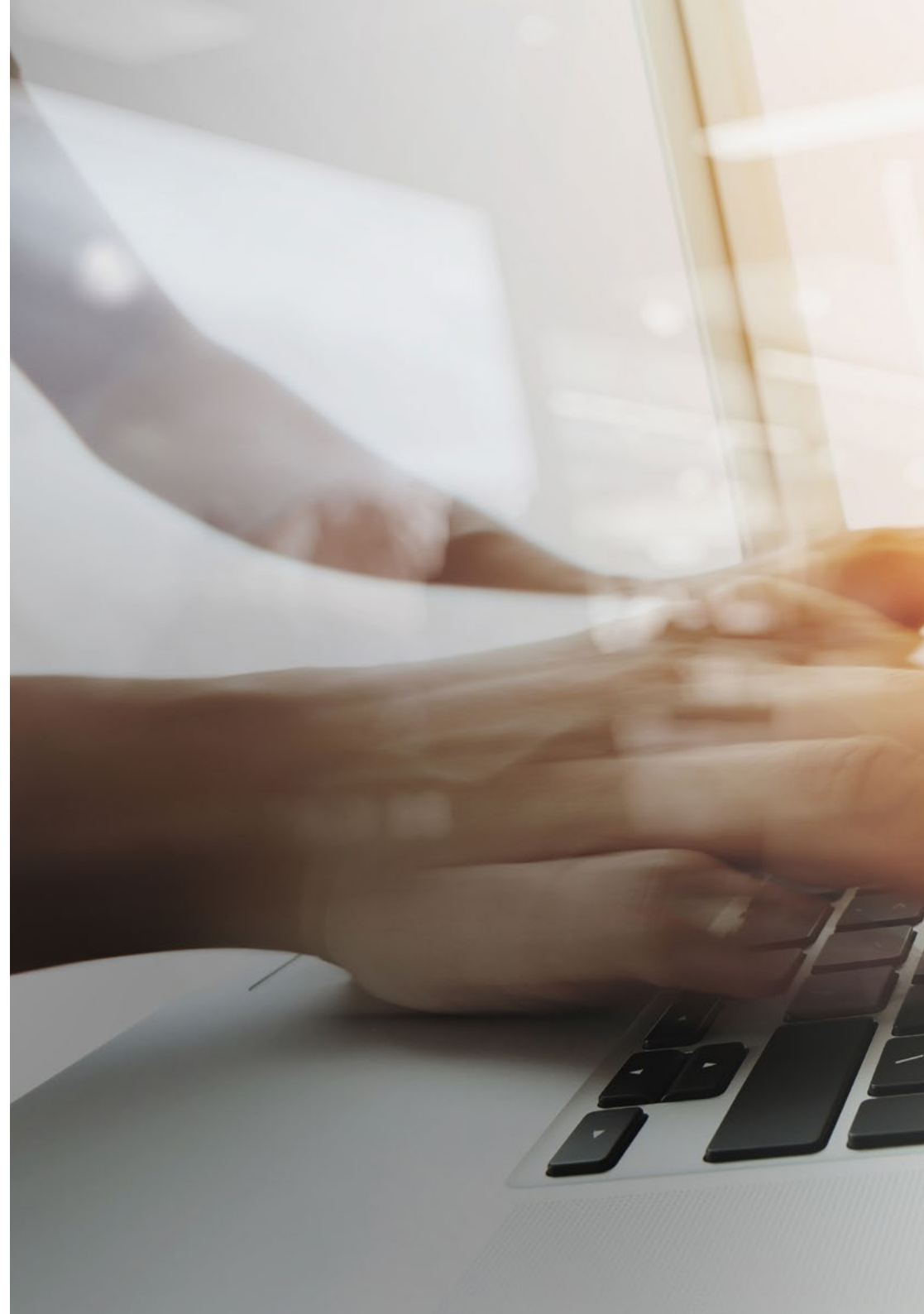
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01 Introduction

With a deep mastery of technologies such as HTML, CSS and JavaScript, the Full-Stack Front-End Developer not only creates engaging and responsive user experiences, but also effectively integrates services and databases on the server side. In an increasingly competitive digital landscape, your ability to quickly adapt to new tools and frameworks, such as React.js or Angular, is critical to staying relevant and efficient in cutting-edge web development projects. For this reason, TECH has created this program, in which in 3 weeks the specialist will be integrated into an expert team, to get up to date on the latest developments and technologies and be able to apply them in their daily practice.



This Internship Program in Front-End Full-Stack Developer will offer you a direct path to a dynamic and constantly evolving career in the world of web development"





A Front-End Full-Stack Developer plays a crucial role in contemporary web development, integrating skills in HTML, CSS and JavaScript to design dynamic and responsive user interfaces. In fact, their versatility extends to integration with the back-end, to ensure consistency and security of the entire system. Therefore, with the rise of cloud technologies and the increasing demand for seamless user experiences, this role has become a critical piece in today's digital landscape. And as the best way to perfect these skills is through practice, TECH has designed a program that consists of a 120-hour stay in a leading company in the field of Front-End Full-Stack Developer Programming.

So, during 3 weeks, the graduate will become part of a team of specialists of the highest level, with whom they will work actively in real projects of advanced web development. In this way, you will be able to get up to date, not only with the most effective procedures, but you will be able to implement your skills in fundamental languages such as HTML, CSS and JavaScript, as well as in advanced frameworks such as React and Vue.js. In this way, you will not only participate in a program that will elevate your technological talent to the highest level, but with which you will integrate these technologies with the back-end, preparing you for versatile roles in development teams.

Furthermore, during the stay, you will have the support of an assistant tutor, who will ensure that the requirements for which this Internship Program was designed are met. Therefore, the specialist will work with total guarantee and security in the handling of the most innovative clinical technology, as well as in the use of programming techniques and tools with the best results to date.

02

Why Study an Internship Program?

Taking this Front-End Full-Stack Developer Internship Program is a strategic decision for those who wish to join the dynamic field of web development with a solid foundation and practical skills. As such, this program will provide professionals with in-depth knowledge in key languages such as HTML, CSS and JavaScript, as well as hands-on experience using advanced frameworks, such as React and Angular. Through real projects and the guidance of expert instructors, computer scientists will not only acquire fundamental technical skills, but also solve problems creatively and efficiently.



You'll tackle specific web development challenges, from implementing interactive layouts and functionality to database integration and performance optimization"

1. Updating from the latest technology available

The latest technology in Front-End Full-Stack Developer programming is characterized by the integration of advanced tools and frameworks that facilitate the development of faster, more secure and scalable web applications. On the front-end, frameworks such as React and Angular continue to evolve, offering improvements in performance and functionality. On the back-end, Node.js continues to be a fundamental tool. These innovations not only improve developer productivity, but also raise the standard for web applications in terms of performance and usability.

2. Gaining in-depth knowledge from the experience of top specialists

The large team of professionals that will accompany the specialist throughout the practical period is a first-class and an unprecedented guarantee of updating. With a specifically designated tutor, the student will be able to work on real web development projects in a state-of-the-art environment, which will allow them to incorporate the most innovative procedures and tools in Front-End Full-Stack Developer programming into their daily practice.

3. Entering first-class professional environments

TECH carefully selects all available centers for Internship Programs. Thanks to this, the specialist will have guaranteed access to a prestigious company in the area of Front-End Full-Stack Developer Programming. In this way, they will be able to experience the day-to-day of a demanding, rigorous and exhaustive area of work, always applying the latest techniques and technologies in their work methodology.



4. Putting the acquired knowledge into daily practice from the very first moment

The academic market is plagued by teaching programs that are poorly adapted to the daily work of the specialist and that require long teaching hours, often not very compatible with personal and professional life. Therefore, TECH offers a new learning model, 100% practical, that allows you to get in front of state-of-the-art procedures in the field of Front-End Full-Stack Developer Programming and, best of all, to put it into professional practice in just 3 weeks.

5. Opening the door to new opportunities

Full-Stack developers, with their ability to handle both the front-end and back-end of an application, are highly valued for their versatility and efficiency in creating end-to-end solutions. This complete mastery allows them to work on a variety of projects, from innovative startups to large technology corporations, and adapt to different roles, whether as a developer, software architect or technical lead. Therefore, with the increasing focus on digitization and digital transformation, Full-Stack developers are in a privileged position to take advantage of these opportunities and advance their careers.



You will have full practical immersion at the center of your choice"

03

Objectives

The objectives of this Internship Program will include mastering the fundamentals of HTML, CSS and JavaScript, as well as the implementation of modern frameworks, such as React and Vue.js. In addition, they will become familiar with agile methodologies and good development practices, preparing them to work in collaborative teams and face real challenges in the professional world. Emphasis will also be placed on problem solving, performance optimization and adaptation to the latest technological trends, with the ultimate goal of preparing professionals for a successful insertion in the web development industry.



General Objectives

- ♦ Master the fundamentals of HTML
- ♦ Master the fundamentals of CSS
- ♦ Master the fundamentals of JavaScript
- ♦ Implement interactive and responsive user interfaces
- ♦ Use modern frameworks such as React, Angular or Vue.js
- ♦ Apply agile software development methodologies
- ♦ Collaborate effectively in multidisciplinary teams
- ♦ Solve complex problems creatively and efficiently
- ♦ Optimize the performance and usability of web applications
- ♦ Adapt and keep up to date with the latest technology trends





Specific Objectives

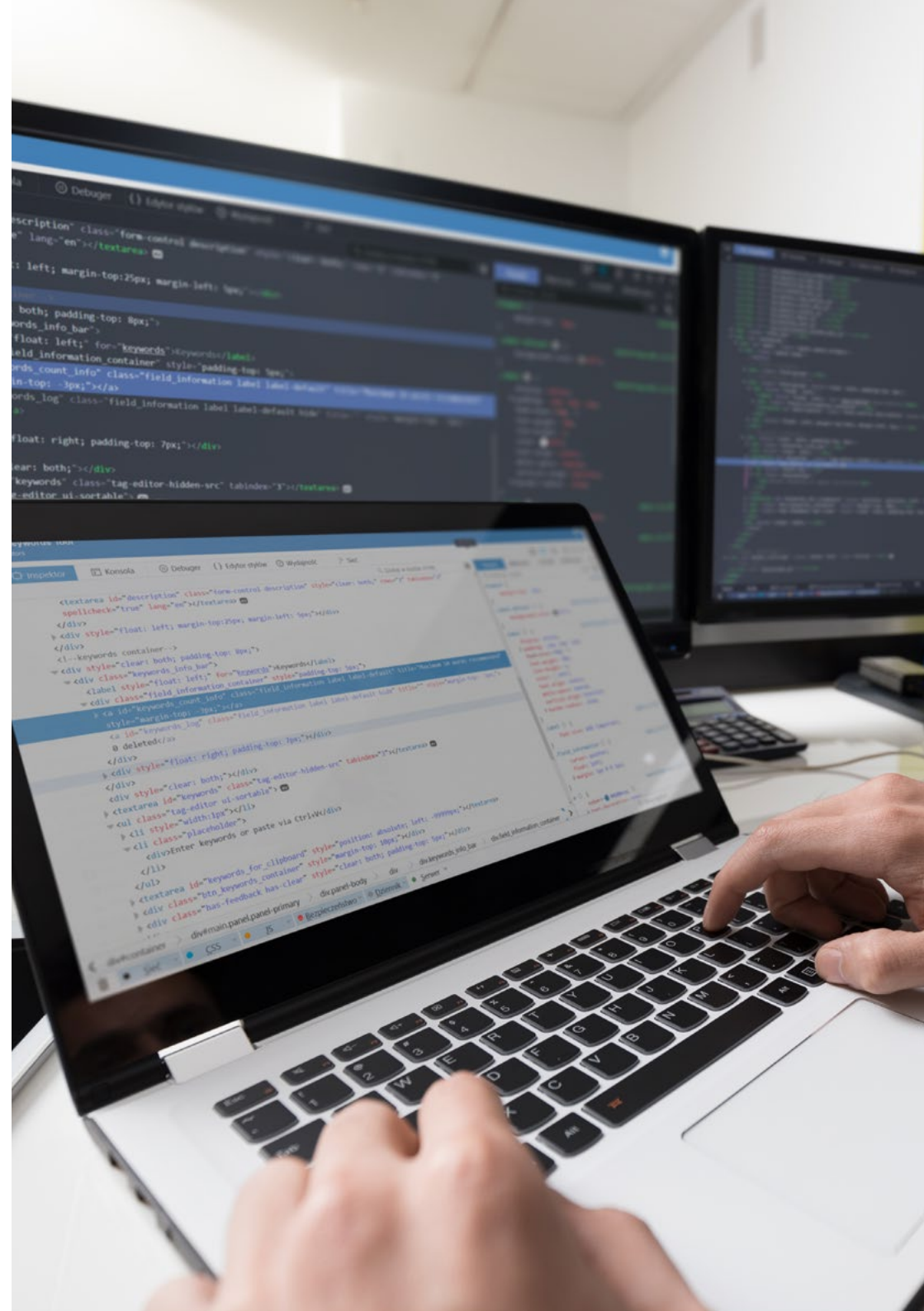
- ♦ Thoroughly understand the Front-End Full-Stack development model
- ♦ Master HTML5 syntax and structure for web content creation
- ♦ Apply advanced CSS3 techniques for styling and responsive design
- ♦ Use JavaScript and jQuery for DOM manipulation and interactivity
- ♦ Implement frameworks such as React.js or Angular for dynamic user interface development
- ♦ Design and develop complete web applications using MVC and MVVM architectures
- ♦ Integrate RESTful APIs for communication between the Front End and the Back End
- ♦ Optimize the performance and loading speed of web applications using advanced techniques
- ♦ Apply agile methodologies such as Scrum or Kanban for efficient project management
- ♦ Use version control tools such as Git for collaborative work
- ♦ Design and develop accessible and user-friendly interfaces for various users
- ♦ Practice unit and integration testing for code quality assurance
- ♦ Deploy and maintain web applications in production environments
- ♦ Continue to learn and adapt to technological innovations in web development

04 Educational Plan

The Internship Program of this program in Front-End Full-Stack Developer Programming consists of a 3-week internship in a prestigious IT company, from Monday to Friday, with 8 consecutive hours of practical training, alongside an assistant specialist. This internship will allow to work on real programming projects, alongside a team of professionals of reference in the field of intensive care nursing, applying the most innovative diagnostic procedures and planning the latest generation of therapy for each pathology.

In this program proposal, completely practical in nature, the activities are aimed at developing and perfecting the necessary skills for Front End Full Stack Developer Programming and conditions that require a high level of qualification, and are oriented to the specific training for the exercise of the activity, in an environment of patient safety and high professional performance. This is undoubtedly an opportunity to learn by working.

The practical education will be carried out with the active participation of the student performing the activities and procedures of each area of competence (learning to learn and learning to do), with the accompaniment and guidance of teachers and other training partners that facilitate teamwork and multidisciplinary integration as transversal competencies for the praxis of Computer Science and programming (learning to be and learning to relate).



The procedures described below will be the basis of the practical part of the program, and their implementation will be subject to the center's own availability and workload, the proposed activities being the following:

| Module | Practical Activity |
|------------------------------------|--|
| Interface Design and Development | Create intuitive and attractive user interfaces |
| | Implement responsive designs that adapt to different devices and screen sizes |
| | Use design and prototyping tools such as Adobe XD, Figma or Sketch |
| | Perform usability testing to ensure an optimal user experience |
| Web Application Development | Develop web applications using front-end technologies such as HTML, CSS and JavaScript |
| | Use frameworks and libraries such as React, Angular or Vue.js |
| | Integrate APIs and external services to enrich application functionalities |
| | Optimize the performance of web applications for a better user experience |
| Project Management and Teamwork | Use agile methodologies such as Scrum or Kanban to manage projects |
| | Collaborate with designers, developers and other team members |
| | Participate in code reviews and provide constructive feedback |
| | Manage version control using tools such as Git and GitHub |
| Back-End Development and Databases | Develop and maintain servers and databases using Node.js and Express |
| | Design and manage relational and non-relational databases such as MySQL, PostgreSQL, and MongoDB |
| | Implement and secure RESTful APIs for communication between the front-end and back-end |
| | Manage user authentication and authorization in web applications |

| Module | Practical Activity |
|---------------------------|--|
| Testing and Debugging | Write and execute unit and integration tests using tools such as Jest, Mocha or Jasmine |
| | Efficiently identify and fix bugs in code |
| | Automate tests and deployments using CI/CD pipelines |
| | Perform code reviews to maintain quality standards and best practices |
| Security and Optimization | Implement security measures to protect web applications from threats and vulnerabilities |
| | Optimize web application performance, reducing loading times and improving code efficiency |
| | Implement SEO optimization techniques to improve visibility on search engines |
| | Perform security and performance audits of web applications |



Train in an institution that can offer you all the possibilities you are looking for, with an innovative academic program and a human team capable of developing your talent to the maximum"

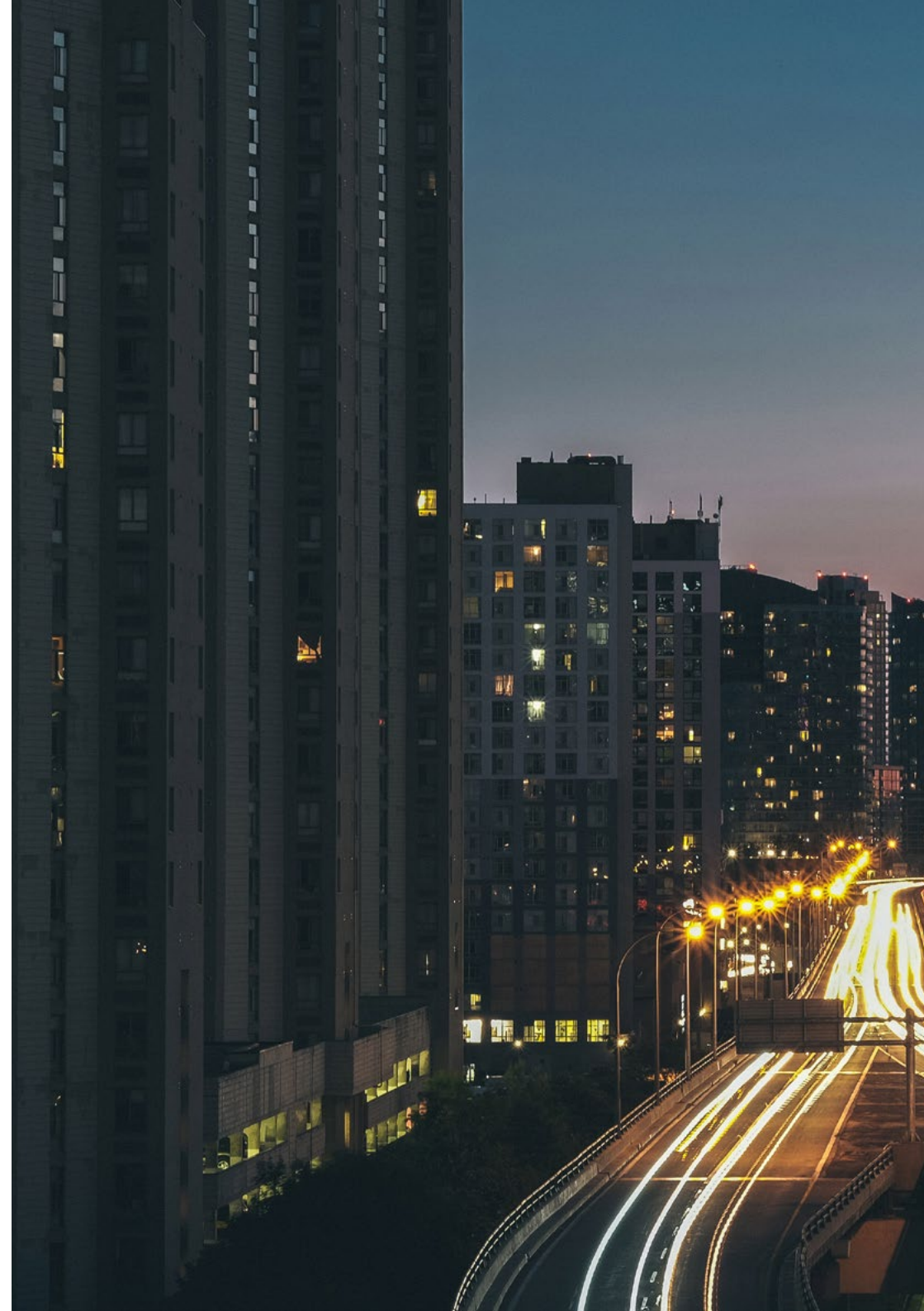
05

Where Can I Do the Internship Program?

In its maxim of offering quality education within the reach of most people, TECH has decided to broaden the academic horizons so that this practical training can be given in various centers around the country. Therefore, this is a unique opportunity that will allow professionals to continue to grow their careers alongside the best specialists in the sector.

“

In addition to strengthening your technical skills, the Internship Program will foster the development of your communication, project management and problem solving skills”





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The student will be able to do this program at the following centers:



Computer Science

Captia Ingeniería

| | |
|---------|--------|
| Country | City |
| Spain | Madrid |

Address: Av. de las Nieves, 37, Bloque A Planta 1
Oficina E, 28935, Móstoles, Madrid

IT company dedicated to providing advanced technological solutions to industries.

Related internship programs:

- Visual Analytics and Big Data
- Software Development

06

General Conditions

Civil Liability Insurance

This institution's main concern is to guarantee the safety of the students and other collaborating agents involved in the internship process at the company. Among the measures dedicated to achieve this is the response to any incident that may occur during the entire teaching-learning process.

To this end, this entity commits to purchasing a civil liability insurance policy to cover any eventuality that may arise during the course of the internship at the center.

This liability policy for interns will have broad coverage and will be taken out prior to the start of the practical training period. That way professionals will not have to worry in case of having to face an unexpected situation and will be covered until the end of the internship program at the center.



General Conditions of the Internship Program

The general terms and conditions of the internship agreement for the program are as follows:

1. TUTOR: During the Internship Program, students will be assigned with two tutors who will accompany them throughout the process, answering any doubts and questions that may arise. On the one hand, there will be a professional tutor belonging to the internship center who will have the purpose of guiding and supporting the student at all times. On the other hand, they will also be assigned with an academic tutor, whose mission will be to coordinate and help the students during the whole process, solving doubts and facilitating everything they may need. In this way, the student will be accompanied and will be able to discuss any doubts that may arise, both clinical and academic.

2. DURATION: The internship program will have a duration of three continuous weeks, in 8-hour days, 5 days a week. The days of attendance and the schedule will be the responsibility of the center and the professional will be informed well in advance so that they can make the appropriate arrangements.

3. ABSENCE: If the students does not show up on the start date of the Internship Program, they will lose the right to it, without the possibility of reimbursement or change of dates. Absence for more than two days from the internship, without justification or a medical reason, will result in the professional's withdrawal from the internship, therefore, automatic termination of the internship. Any problems that may arise during the course of the internship must be urgently reported to the academic tutor.

4. CERTIFICATION: Professionals who pass the Internship Program will receive a certificate accrediting their stay at the center.

5. EMPLOYMENT RELATIONSHIP: The Internship Program shall not constitute an employment relationship of any kind.

6. PRIOR EDUCATION: Some centers may require a certificate of prior education for the Internship Program. In these cases, it will be necessary to submit it to the TECH internship department so that the assignment of the chosen center can be confirmed.

7. DOES NOT INCLUDE: The Internship Program will not include any element not described in the present conditions. Therefore, it does not include accommodation, transportation to the city where the internship takes place, visas or any other items not listed.

However, students may consult with their academic tutor for any questions or recommendations in this regard. The academic tutor will provide the student with all the necessary information to facilitate the procedures in any case.

07 Certificate

This **Internship Program in Front-End Full-Stack Developer Programming** contains the most complete and up-to-date program on the professional and educational field.

After the student has passed the assessments, they will receive their corresponding **Internship Program** diploma issued by **TECH Technological University** via tracked delivery*.

In addition to the diploma, students will be able to obtain an academic transcript, as well as a certificate outlining the contents of the program. In order to do so, students should contact their academic advisor, who will provide them with all the necessary information.

Title: **Internship Program in Front-End Full-Stack Developer Programming**

Duration: **3 weeks**

Attendance: **Monday to Friday, 8-hour shifts, consecutive shifts**



future
health confidence people
education information tutors
guarantee accreditation teaching
institutions technology learning
community commitment
personalized service innovation
knowledge present quality
online training
development languages
classroom

tech technological
university

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