**IBM** 

Home > Professional Certificate > Full Stack Developer

# Impulsa tu carrera profesional

## Lo que aprenderás

- Describe the core concepts of cloud computing, cloud models and architectures, components of cloud computing, and list the major cloud service providers.
- Apply essential cloud application development concepts and languages including HTML5, CSS3, and JavaScript, to create your first cloud-based applications.
- Explain Cloud Native and apply DevOps practices with a CI/CD toolchain on IBM Cloud, and Git to continuously develop and update Cloud applications.
- Develop full-stack native cloud applications using Node.js framework for server-side and React for front-end. Extend your applications with third-party packages, REST APIs and AI services such as IBM Watson.
- Define containerization technology and state the significance of containers to Cloud Native. Build Docker images, and orchestrate & scale applications using the Kubernetes ecosystem.
- Recall the fundamentals of Python, one of the most popular and beginner friendly programming languages and employ various Python programming constructs to create a Cloud application.
- Discuss the differences between relational and NoSQL databases.
   Compose SQL queries to insert, select, update, delete and join data in a database. Explain Object Relational Model (ORM) and employ
   Django ORM to develop a database powered application.
- Describe and apply best practices in secure cloud computing, by adding authentication and encryption to your application.
- Summarize the essentials of Microservices, Serverless Computing, and their importance for Cloud Native development. Compose an application using several microservices and deploy it on a private, public or hybrid cloud with OpenShift.

# Capacitación de la mano de expertos

11 cursos de capacitación

#### A tu ritmo

Avanza a tu ritmo

### 7 meses

4 - 6 horas por semana

### **570 €** 633 €

Para obtener la experiencia completa del programa

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### Información general del programa 🔨

This Professional Certificate will provide you with a broad set of skills and the technical aptitude to launch your career as a Full Stack Cloud Developer. You will build cloud-based applications with the support of IBM experts, practice your skills with hands-on labs, and complete projects designed to sharpen your skills and help you build your portfolio.

The Full Stack Developer program will teach you the tools and technologies that successful software developers and web developers use to build, deploy, test, run and manage Full Stack Cloud Native applications – putting you in an advantageous position to begin a new career in a fast-growing field.

You do not need any prior programming experience or Cloud background to begin this program. The courses in this program will help you develop the skills needed for developing web applications that are in high demand, including: Cloud Foundations, HTML, CSS, JavaScript, GitHub, Node.js, React, Cloud Native practices, DevOps, CI/CD, Containers, Docker, Kubernetes, OpenShift, Istio, Python programming, Databases, SQL, Django, Bootstrap, Application Security, Microservices, Serverless Computing, and more.

In the Final Project, you will demonstrate your proficiency in applying various Cloud Native tools and technologies. You will create a cloud environment using IBM Cloud to build and deploy an application consisting of multiple microservices using CI/CD.

After completing the Full Stack Cloud Developer program, you will have acquired the skills to develop, deploy, run and manage applications using front-end and back-end technologies and will be ready to embark on one of the fastest growing career paths.

### Cursos en este programa



### Certificación Profesional en Full Stack Developer de IBM



### Introduction to Cloud Computing ^

#### () 2-4 horas por semana durante 3 semanas

Jumpstart your cloud expertise and explore offerings of AWS, Google, and IBM; delve into IaaS, PaaS, SaaS models, and cloud security. Experience IBM Cloud app deployment. Perfect for executives, students, and budding professionals.

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### () 2-4 horas por semana durante 2 semanas

Learn the key tools and programming languages to bootstrap your career as a Cloud Developer. Get started with web development using HTML5, CSS3, JavaScript and GitHub.

Ver el curso



## Introduction to Cloud Native, DevOps, Agile, and NoSQL

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### () 6-8 horas por semana durante 2 semanas

Learn to develop cloud-native applications from scratch in this comprehensive course. Covering key cloud concepts, tools, and techniques, you'll also explore DevOps culture, CI/CD practices, and MongoDB principles.

Ver el curso



### **Developing Front End Apps with React ^**

### () 2-3 horas por semana durante 4 semanas

Develop hands-on skills with front-end applications using the React web framework user interface library.

Ver el curso



## **Back-end Application Development with Node.js** and **Express**

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#### () 4-6 horas por semana durante 3 semanas

In a recent Stack Overflow survey, Node.js was used by about 50% of the developers who answered the survey, making it the most used server-side technology. Express ranked as the fourth most popular web technology overall, making it the most popular server-side web framework.

Ver el curso



### Full Stack Application Development Project ^

### ( ) 6-8 horas por semana durante 2 semanas

For this project you will apply your knowledge of front end and back end development gained from previous courses and build and deploy a full stack real-world web application on the cloud.

Ver el curso

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Design, develop, deploy, manage and secure applications and solutions on public, private or hybrid cloud platforms

Ver el curso



## Introduction to Containers, Kubernetes and OpenShift



### ( ) 2-3 horas por semana durante 5 semanas

This course introduces you to containers and its emerging ecosystem of related technologies such as Docker, Kubernetes, OpenShift, and Istio. You will not only understand the concepts but also practice hands-on in the cloud.

Ver el curso



## Django Application Development with SQL and Databases



### () 6-8 horas por semana durante 2 semanas

This course introduces you to the basics of SQL, Django and Bootstrap. You will gain hands-on practical experience developing and deploying a full-stack Django web application on the cloud.

Ver el curso



### Python Basics for Data Science ^

### () 4-10 horas por semana durante 3 semanas

This Python course provides a beginner-friendly introduction to Python for Data Science. Practice through lab exercises, and you'll be ready to create your first Python scripts on your own!

Ver el curso



### Python for AI & Development Project ^

### ( ) 3-4 horas por semana durante 1 semanas

This mini-course introduces you to the process for unit testing Python code, including building and running unit tests and packaging the Python application for distribution.

Ver el curso



### Perspectivas de empleo ^

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 Employment of software developers is projected to grow 22% from 2019-2029, faster than the average for all occupations. (source: US Bureau Labor/Occupational Outlook Handbook)

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comprometidos con el
aprendizaje en línea

### Inscríbete ahora

**570 €** <del>633 €</del>

11 cursos en 7 meses

Iniciar el Professional Certificate

## Comienza con computer science

Explorar otros cursos de computer science

## Explora temas relacionados

<u>Blockchain</u> → <u>Desarrollo de aplicaciones</u> → <u>Desarrollo web</u> → <u>Java</u> → <u>Linux</u> →

<u>Programación de computadoras</u> → <u>Programación en C</u> → <u>Python</u> → <u>Seguridad cibernética</u> →

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#### los cursos que necesitas

### **Inspiradores**

Impulsa tu carrera profesional con programas de crédito respaldados por universidades y certificados verificados.

### **Prácticos**

Estudia y demuestra tu conocimiento a tu ritmo



### **Flexibles**

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#### **Alentadores**

Estudia con compañeros universitarios y colegas de todo el mundo





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