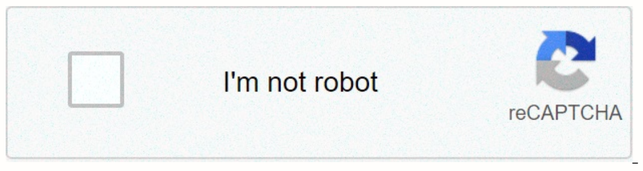

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Free online computer learning websites

Computer programming is the process of writing statements that are executed by computers. The statements, also known as code, are written in a programming language that the computer can understand and use to perform a task or solve a problem. Basic computer programming involves analyzing a problem and developing a logical sequence of instructions to resolve it. There can be numerous paths to a solution, and the computer programmer seeks to design and encode what is most efficient. Among the programmer's tasks are understanding the requirements, determining the right programming language to use, designing, or architecting the solution, coding, testing, debugging, and writing documentation so that the solution can be easily understood by other programmers. Computer programming is at the heart of computer science. It is the implementation part of software development, application development and software engineering efforts, transforming ideas and theories into real and working solutions. Learn Basic Programming for Beginners with Online Courses and ClassesedX offers a multitude of classes aimed at new and novice coders. These introductory classes provide a step-by-step tutorial on how to code using your favorite language. Harvard's Introduction of CS50 to Computer Science, a entry-level course, teaches how to think algoritmically and solve problems efficiently. Topics include basic concepts in abstraction, algorithms, operating systems, data structures, encapsulation, resource management, security, software engineering, and web development using languages such as C, Python, SQL, and JavaScript, as well as CSS and HTML. Problem sets are inspired by real domains of biology, cryptography, finance, forensics, and gaming. Learn how to code with online computer programming coursesComputer Science Trade science is the most popular subject in edX and there are prominent programming courses from leading universities and institutions including Harvard, MIT, Microsoft and W3C available to help you get started. Start with an introductory course in computer science, such as harvard's popular CS50 or the Introduction to Computer Science and MIT programming using python to learn key concepts and fundamentals. IITBombay also offers beginner programming courses, including Object-Oriented Programming and Programming Basics that focus on logical thinking and best practice programming. Online certificates are available for all courses and some, such as The Schedule for All: Introduction to Arizona State University Programming, offer the ability to apply for university credit. Then dive into different languages of computers. Programming tutorials and courses are available to introduce you to java, JavaScript, Python, HTML, R, C++ and more coding. Discover the similarities between different languages and win a one that language is right for a particular task. Do you want to go further? Sign up for an early MicroMasters program to build on your knowledge and experience. Online computer courses are available in software development and testing and provide advanced training designed to start a computer programming or master's degree course in the field. Jobs in computer programmingA qualified and experienced computer programmer can essentially write his own ticket. There are thousands of vacancies open in programming areas and related areas. For example, a search for vacancies available to Java programmers in Indeed.com at the time of this article had more than ten thousand results. And that's only in the United States. People who want to enter the world of computer programming can choose to specialize in any number of popular programming languages and find many basic-level opportunities. Start as a junior programmer in the language of your choice and gain the experience and skills to climb the ladder to software engineer or even chief technology officer. Explore a career as a computer programmerYou'll have a beginner course in computer science or any number of programming languages and see if this exciting, on-demand field is right for you. Introductory and self-accelerated courses are now available to help you learn how to code in many different languages. Sign up and start learning today. Whether you are looking to speed up your career, earn a degree or learn something for personal reasons, edX has the courses for you. Charles W. Eliot, who served as president of Harvard University for a record 40 years, charted a roadmap for education in his seminal essay, The New Education. Written in 1869, he advocated the continuous updating of how and what students learn, so that education could evolve in harmony with society. This approach remains equally relevant today, 150 years later. Today's educators have to rethink higher education for a world that is being brought down by technology. As Farnam Jahanian, president of Carnegie Mellon University, recently noted: The unprecedented pace of social change makes the need for reform more urgent. There is great pressure on higher education as the engine of progress in a knowledge-based economy. Technology is transforming jobs and skills faster than organizations or people can adapt. Coursera's 2019 Global Skills Index found that two-thirds of the world's population is lagging behind in critical skills. Research from the World Economic Forum suggests that the fundamental skills needed to play most roles will change by an average of 42% by 2022. At this level companies are struggling to identify and provide the skills they need to stay competitive. The availability of key skills is now one of the top three business threats to CEOs worldwide, according to a recent survey by PwC. As the Guardians of Knowledge and of human capital, universities have to play an important role in the preparation of a skilled global workforce. This will require an ecosystem-oriented mindset, using online offerings to broaden reach and partner with other universities and content providers. In this case, it will require much greater investments than the 3% of the global expenditures currently aswerled to technology in the education sector. Like industries, universities will need digital solutions to solve the big problems of higher education. Higher education for people on a global scale By leveraging emerging technologies, universities can go beyond campus walls to empower diverse students on a global scale. It begins with the adoption of stackable online learning, which provides flexibility and accessibility that increases access to university curricula and allows students to engage in small pieces of learning before committing to larger undergraduate programs. Technology-powered formats, such as mobile experiences, find the student where they are, allowing for more seamless transitions for those who enter a new learning environment or return to where they left off. At a more advanced level, the adoption of AI-fuelled adaptive learning will enable universities to customize education for millions for more effective outcomes. Universities have already seen immediate and powerful results from online undergraduate programs. Major MBA programs such as the Global Master's degree in Business Administration from Macquarie University, University of Illinois at Urbana Champaign iMBA, Kelley School of Business Online MBA and Carnegie Mellon University (Tepper) online MBA, in particular have adopted online learning to increase accessibility and accessibility for work professionals. These programs also offer stackable learning, such as a small set of online courses, that allow students to close specific competency gaps or add specific skills to meet immediate career goals. By embracing technology in its many forms, universities will be able to offer life-changing access to millions more globally. But that's not the only prize. Through deeper commitments and partnerships from local industry around the world, the best colleges will be able to create a virtuous cycle that advances in collaborative research and thinking to address some of the most pressing challenges we face today. A game-changing university ecosystem will require a global community working together to expand access to higher education. Universities can be the center of this revolution by using technology to join forces and create a shared learning ecosystem, curriculum with the best courses from other institutions. Last year, Tec de Monterrey in Mexico, Universidad de los Andes in Colombia, and Pontificia Universidad Católica de Chile teamed up for La Tríada —an unprecedented collaboration that allows for their combination students to share access to 100 online courses available at the three institutions. The potential advantages go beyond shared resumes. Universities could also pool resources to launch a common credit or rating system, create virtual collaborative learning spaces, or combine insights from a larger network to shape the direction of programs. Technology-based collaboration will also help alleviate the shortage of teachers that plagues institutions around the world. Earlier this year, Inside Higher Ed reported a national shortage of computer science teachers, describing it as a history of supply and demand, but about steroids. In India, teacher shortages are hindering the impact of major institutions —the Indian Institute of Technology, a leading technology institution, has a 35% shortage with teachers. Digitally driven ecosystems could seamlessly connect academy or industry content experts to provide personalized learning programs for students anywhere in the world. Universities would be able to leverage the best minds in the industry or open the door to online teacher exchanges between institutions. Technological ecosystems also accelerate research among universities. For example, Quartolio, an AI-driven research platform, is helping researchers at universities such as Berkeley, MIT and Stanford connect points and discover cross-discipline insights in their research areas. Transforming the intertwined history of Stanford and Silicon Valley exemplifies what is possible when industry and academia come together. According to a PitchBook report, Stanford had the highest number of entrepreneurs -- 1,178 -- in a global undergraduate program in 2018 (with 1,015 companies and $28.84 billion in capital raised). As skills demands in the workplace continue to evolve rapidly, we need greater industry and university interdependence. Institutions such as Mines ParisTech are leading the way with strong ties with companies and more than 100 major industrial partners. In addition to the synergy of research, the courses include internships and study projects with partner companies. As talent shortages grow around the world, institutions and companies must chart partnerships that equip students with employable skills. A prominent example is aligning the Google IT Support Professional Certificate with 25 community colleges in the U.S. to offer the IT training program as part of your curriculum. With more than 215,000 IT support roles open, this collaboration faces a major skills shortage. Google closes the cycle by connecting program students with top employers for IT support jobs, including Walmart and Bank of America. Expanding the impact, the University of London and Northeastern University also offer credit for an online bachelor's degree to students who complete the program. The mission of higher education institutions is changing in conjunction with with reach, impact and relevance as important as ever. Universities are being called to serve more diverse students on a large scale. They have to create credentials that attract the attention of employers who are increasingly focused on skills compared to traditional degrees. They have to create shorter paths to new skills. And alongside fundamental knowledge, they have to offer the flexibility for students to improve their careers, as lifelong learning is the only way forward. Technology will be the link through this change, revolutionizing what we know as greater ed.

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