



WHAT ARE THE PROFESSIONS IN THE IT FIELD?

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The information technology sector continues to grow and develop steadily. The rapid development of the Internet and mobile technologies opens up new opportunities for business, education, health and other industries. This leads to increased demand for IT professionals and the creation of new jobs. In this article, we will look at the professions in the field of information technology that are in high demand. The importance of IT professions for modern society Professions in the field of Information Technology are of great importance for modern society. Because they are the engine of innovation, economic development and social change. Programmers develop and service software of state-of-the-art technology and applications that apply in a wide variety of fields, from medicine to finance. It also develops and ensures the safety of Information Systems. Protects the data of the company, Government and individuals from cyberattacks. IT professionals increase the efficiency and productivity of business processes by creating innovative information management systems and automating daily tasks. They are involved in the development of artificial intelligence, blockchain, the Internet of items and other new technologies that can lead to revolutionary changes in society and the economy. The information technology industry offers a wide variety of professions, each with its own specific tasks and requirements. The software developer is responsible for creating and updating software products that require a variety of programming skills. The system administrator is engaged in the management and maintenance of network infrastructure, an area that requires knowledge at the level of network technologies, hardware and software. Data analytic studies collect and analyze large volumes of information. It then helps organizations make decisions based on this information. Network and communications engineers ensure the efficient operation of networks by planning, installing and servicing network infrastructure. Information security professionals are responsible for protecting the organization's data and information systems from internal and external threats. Professions in the field of programming Programmer. A specialist who creates, tests and services



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software. It can specialize in Java, C++, Python, JavaScript, and many other programming languages. Web programmer. Specialist in the creation of website and web applications. It includes programming languages such as HTML, CSS, and JavaScript, and React, Angular, and Vue. works with frameworks like js. Mobile programmer. A specialist who is engaged in creating applications for mobile devices such as smartphones and tablets. It writes code in programming languages such as Java, Kotlin (for Android), and Swift (for iOS). Database administrator. Manages databases to ensure their reliability, productivity and security. It also develops and optimizes the database structure. All these professions require a wide variety of skills, knowledge and experience, and also provide ample opportunities for development and career building in the field of Information Technology. Professions in the field of IT systems administration System Administrator. It is responsible for installing, maintaining and supporting the hardware and software of computer systems and solving network and security problems. Network administrator. Engaged in the installation, configuration, maintenance and monitoring of network equipment and software, ensures stable network operation. DevOps is an engineer. Manages the software development and implementation process. Deals with automation of software development, Assembly and startup processes. Professions in data analysis and Big Data Data scientist is a professional who uses various algorithms and methods of data analysis to obtain valuable information from large amounts of data. Data analytics is a specialist who analyzes data, conducts statistical research to identify trends and patterns. Business Intelligence Analyst is a professional involved in analyzing the information needed to make business decisions. Data engineer is a specialist responsible for the development of the necessary infrastructure for data collection, storage and processing, as well as for working with large amounts of data. Big Data Architect is the professional responsible for the design and development of large data processing and analysis systems. ML engineer-a specialist who is engaged in the development and training of machine learning algorithms intended for data analysis. From year to year, the data is increasing, and the demand for specialists who process them is increasing. Professions in the field of software testing A software tester (Software Tester) is a software tester responsible for verifying the conformity of a software to a



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classification, detecting errors and defects. A specialist involved in the development of Test plans and scenarios. Quality Assurance Engineer () is a software product that is involved in quality control, as well as development, implementation of testing processes and methodologies. Test Automator (Test Automation Engineer) is a professional who is engaged in the development of automated tests and tools for testing software in order to simplify and speed up the testing process. Security Tester (Security Tester) — analyzes gaps and threats in software security. It also develops and tests application safety tests. A Test Manager (Test Manager) is the head of the test process, who plans and organizes the work of a team of test takers. Manages Test resources and results reports. Performance tester is a performance tester that tests, analyzes and optimizes the performance of applications, and also develops load tests. A game tester (Game Tester) is a person who engages in testing computer games on different platforms by performing functional, hardware, and game tests. Performance tester is a performance tester that tests, analyzes and optimizes the performance of applications, and also develops load tests. A game tester (Game Tester) is a person who engages in testing computer games on different platforms by performing functional, hardware, and game tests. Writing an application is only part of the work and taking measures to make it work without errors in any conditions — a task that testers will help. Professions in the field of Project Management in it Project Manager (Project Manager) — responsible for the Planning, Organization, execution and control of the project. The project manager leads a team of programmers, ensures that the project is completed on a deadline and in accordance with the budget. Business analytics-analyzes the requirements and user needs of a business, defines functional and non-functional requirements for the development of IT projects. Skram master (Scrum Master) — responsible for the introduction of skram methodology into the project, ensures the implementation of its principles and practices, eliminates obstacles in the path of a group of programmers. A Product Manager (Product Manager) is responsible for developing a product strategy, identifying its functional capabilities, managing the life cycle, and interacting with various stakeholders. Technical Project Manager () is the manager of the integration of the technical aspects of the project, including infrastructure, architecture, technology and systems. The director of project



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management is responsible for Strategic Management of projects in the organization, improving management processes and ensuring their compliance with the goals of the company. In addition, there are various specialized professions in project management, such as Business Analyst, Product Architect, program manager. Each of these professions plays an important role in the successful implementation of IT projects. In conclusion, for the successful implementation of the project, specialists from management, programmers, testers, designers, marketers and many other fields are needed.