1. ***Read the following tasks of IT specialists and match them with the correct profession.***

*Cloud Engineer, Cyber Security Engineer, Data Scientist, Development Operations (DevOps) Engineer, Hardware Engineer, Mobile Application Developer, Network Administrator, Site Reliability Engineer, User Interface Designer, Web Developer*

1. **Unfortunately you have only an English copy of these professions. Translate these descriptions into German for potential applicants.**
2. **Welcome to the job fair! You are approached by a student who wants to find out more about IT specialists and your training program. Create a dialogue with your partner.**
3. …

… create applications for mobile devices, such as iPhones and Androids. They utilize multiple programming languages to optimize application functioning on a variety of mobile platforms. Individuals in this field may find diverse project and employment opportunities, including optimizing mobile versions of existing applications, designing game apps, or designing functional lifestyle apps.

1. …

… collect or create web content and plan website layouts and navigation, as well as coding for web pages. They also test and optimize a website for user experience and optimum performance. They draw on expert knowledge in programming languages used for the web to develop front-end and back-end aspects of websites and applications. They need to be highly proficient with HTML, Javascript, and CSS, and should be familiar with server-side programming languages to develop more complex applications. They typically work in teams alongside web designers and other IT professionals.

1. …

… function as a “jack of all trades” in regards to databases and information systems in organizations. They work in a variety of technical areas within their organizations, utilizing a broad set of knowledge and skills. Furthermore they often work with IT teams to oversee areas of concern such as database architecture and maintenance, web and software development, information security, cloud storage and maintenance. You must have a wide knowledge of current technology and trends, as well as strong communication skills.

1. …

… direct the gathering and application of data for a variety of organizations, including corporations and government agencies. They approach the retrieval, storage, and implementation of data and data systems from a broad view. Rather than just focusing on the architecture of database systems, their administration, or the specific methods used to store and convey data, data scientists work to develop large-scale models of how an organization relates to its data. Individuals in this field consider methods of data mining, methods of storage and conveyance, hardware and software, trends in data, and niche applications of data. Besides they work alongside teams of other IT professionals, often taking a directorial approach.

1. …

… oversee networks and communication systems to keep information and communications flowing smoothly. They implement and maintain network software and hardware, fix network problems, and ensure network security, availability, and performance standards. They also optimize existing systems to reduce costs and increase productivity, as well as install, optimize, and secure new systems. Furthermore they typically work with a team of other IT professionals with unique specializations.

1. …

… develop and implement computer security strategies and systems to protect vital information from computer crime and cyber warfare. They monitor networks for security breaches and, when required, respond to attacks with countermeasures. They must understand the current state of threats in the field, the needs of their employers, and current systems available for combating threats to information security. They also educate employees on computer security.

1. …

… design solutions for companies seeking to move their IT infrastructure and services from on-premise servers to a cloud-based storage solution.

They define the cloud structure for a company and work with business analysts to make sure the architecture is in line with business requirements. They also make sure the cloud service provides high availability, scalability, and fault tolerance. They manage cloud infrastructure and ensure that private and public clouds interface well. Moreover they must have an understanding of the basics of enterprise architecture, including how to configure information technology assets around the needs of a company; they also need to have an expert understanding of service-oriented architecture (SOA).

1. …

… work to ensure that software functions smoothly and logically for users and consumers. They operate within a software development team to design, create, and troubleshoot the user interface aspects of software. User interface designers rely on technical knowledge, familiarity with a variety of programming languages, critical thinking, and ingenuity to ensure that the user experience for software is not hampered by a poorly designed interface.

1. …

… work to ensure that an organization’s website runs smoothly and efficiently serves its intended purpose. They maintain, update, and troubleshoot websites for their employer, to guarantee that the website remain functional and do not suffer from interruptions. Site reliability engineers utilize a variety of programming language, including HTML, Javascript, and CSS, as well as website management technologies. Besides they work alongside teams in their organizations to keep the website in alignment with organizational goals, and to keep it up-to-date in relation to the rest of the web.

1. …

… design computer hardware. They draw on computer engineering to develop hardware, either for use within an organization, or as a product to be sold commercially. Hardware engineers work in teams with other technology professionals and scientists to design, build, and troubleshoot existing computer hardware or entirely new hardware. Hardware engineers work with the goals of maximizing technological efficiency, minimizing issues and errors, and meet current technological needs.

*VIDEO:* [*https://www.youtube.com/watch?v=rQI1GWgCZew*](https://www.youtube.com/watch?v=rQI1GWgCZew)

*TEXT:* [*https://thebestschools.org/careers/best-information-technology-jobs/*](https://thebestschools.org/careers/best-information-technology-jobs/)