

JOB TITLES IN IT INDUSTRY

COMPUTER TOOLS

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MARIA CONSTANZA RODRIGUEZ HURTADO

ZOHREH MOEINI

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**JOB TITLES IN IT INDUSTRY**

These are the jobs required in the IT Industry:

# **JOBS DESCRIPTION**

* 1. **Front End Developer**: A Front-End Developer is the person who creates websites and web applications. The person will be in charge to how a web page looks.

A front end developer has one general responsibility: to ensure that website visitors can easily interact with the page. They do this through the combination of design, technology and programming to code a website’s appearance, as well as taking care of debugging. Whenever you visit a website, anything that you see, click on or otherwise use is the work of a front end developer. (1)

* 1. **Back End Developer**: Back-end developers are the experts who build and maintain the mechanisms that process data and perform actions on websites. The person will be in charge of how a web page or program works.

A backend developer is a programmer who specializes in developing the server-side of web applications. The backend of a web application is responsible for handling data storage, processing, and retrieval. This is achieved through the use of programming languages and frameworks such as Python, Ruby, Node.js, and Django, among others. The backend developer works to ensure that the server-side of the application functions efficiently, securely, and reliably. (2)

* 1. **QA Analyst**: The Quality Assurance (QA) Analyst will conduct testing on software, websites, and other technical products to identify and resolve bugs, defects, and other potential issues.

QA testers play an important part in a product’s development. They ensure the final product meets the requirements set out by the client, and reduce the numbers of errors in software. QA analysts are the first ones to encounter anything that might make the user experience worse. After testing the software, a QA analyst will document any problems they had and send the report to the developers who revise the software. This cycle of development and testing continues until the QA analyst (or team of QA analysts) are satisfied with the final product and give it their stamp of approval. Once the QA analyst signs off on a product, it’s considered ready for release.(3)

* 1. **Database Developer:** Database developers are responsible for the design, development, programming and implementation of information databases.

Database developers create and implement computer databases by first determining the best database management system for clients. They analyze a company’s needs by compiling an effective database system that meets those needs and test database programs for efficiency and performance while troubleshooting and correcting issues. To assist with the process, database developers utilize their knowledge of software, data integrity practices, programming languages, and other factors that go into database systems. They run performance testing procedures to ensure databases function correctly, and they troubleshoot potential problems.(4)

* 1. **Network Administration:** Network administrators make sure the computer networks of an organization are secure and working well. A network administrator is an IT professional who ensures that an organization's computer networks—groups of computers that share information with one another—are operating to meet the needs of the organization.

Network monitoring is essential to monitor unusual traffic patterns, the health of the network infrastructure, and devices connected to the network. It helps detect abnormal activity, network issues, or excessive bandwidth consumption early on and take preventative and remedial actions to uphold the network quality and security.Network management encompasses multiple administrative functions, including network planning, implementation, and configuration.(5)

# **SKILLS**

The information technology (IT) field is a great industry to work in for those looking for a long-term career and job growth in a dynamic industry. However, you need a mix of hard and soft skills to succeed in IT. Knowing and developing the skills in IT you need will help you stand out over other candidates. In this article, you'll learn about the hard, technical skills and soft, transferable skills you need to work in IT successfully and how to include them in your resume.(6)

* Security. Security should be foundational to any IT team.
* Programming. Being able to program is the most important ability for the person who want to develop software, web applications, and websites.
* Systems and networks.
* Data analysis.
* DevOps.
* Cloud computing.
* Machine learning.
* Technical writing. Excellent written communication skills are necessary.
* Ability to do Data Modelling. Physical Schema design for given Database. Database install, patching, high-availability & disaster recovery design.

# **KNOWLEDGE**

All the jobs require a Bachelor Degree in Computer Science

**Front-End, Back-End:**

* Knowledge in the following programming languages: C#, Java, JavaScript, PHP, Python, Ruby, Golang
* Knowledge in operational systems as Linux.
* Cloud computing.
* Networking.
* Web Development.
* Machine learning.

**Database Developer, Network Administration:**

* Knowledge in SQL
* Manage backups using EMC Networker and Avamar.
* Manage Solarwinds to monitor servers and networks for all locations.
* Deploy and manage storage (windows file servers and NetApp NAS).

**QA Analyst:**

* Selenium
* Appium QA testing tool
* LoadRunner software testing tool

# **SALARY**

Computer and information technology (IT) professionals in the US made a median salary of $97,430 in May 2021, according to the US Bureau of Labor Statistics (BLS) [[1](https://www.bls.gov/ooh/computer-and-information-technology/home.htm)]. That’s significantly more than the $45,760 average salary for all occupations. (7)

Figure 1.

# **REFERENCES**

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