# Unit 1

**Job intervie**

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1. **Role play:**

The best way for an interviewer to get to k

questions. And you need to be prepared for it. In this exercise, you will need to write a brief description about you and your job. Your interviewer will ask the questions:

* + Can you tell me about yourself?
  + Tell me about your last work experience.
  + What programming languages do you work with?
  + Do you have any experience with databases, DevOps, Front-end, or Back-end?

1. Can you tell me about yourself?

"I have six years of experience as a Software Developer and Systems Analyst, with a focus on building software solutions and automating processes. I specialize in front-end development using Angular and TypeScript, and I also have extensive experience in RPA (Robotic Process Automation) development and documentation with tools like Automation Anywhere and UiPath. I’m currently working at EARQ Consulting, where I design and implement automation solutions, improve existing applications, and collaborate closely with clients to define project requirements. My goal is to build efficient, user-friendly systems that solve real business problems."

2. Conte-me sobre sua última experiência de trabalho.

"In my current role, I am responsible for the creation and maintenance of software and RPA solutions. I participate in client meetings to define project requirements, where I actively work on the architecture, documentation, and development of RPA, as well as monitoring and improving RPA projects.

On the front-end, I design layouts for applications and websites to create intuitive user experiences, primarily using Angular and TypeScript. For back-end and RPA tasks, I work with Automation Anywhere, integrating automation tools with SQL databases and cloud environments such as Google Cloud and Azure.

My experience also includes performance management and website optimization, with proven results in tools l…

3. What programming languages do you work with?

"I’m proficient in several programming languages, including TypeScript, JavaScript, PHP, and SQL. For front-end development, I work primarily with TypeScript and Angular, which I use to build responsive, user-friendly interfaces. I also use SQL with Microsoft SQL Server and MongoDB for database management. My goal is always to select the right language for the project requirements and the tech stack that best serves the client’s needs."

4. Do you have any experience with databases, DevOps, Front-end, or Back-end?

"Yes, I have experience across these areas. For databases, I work with Microsoft SQL Server and MongoDB, particularly in automating data processes for RPA. My front-end experience is focused on Angular and TypeScript, where I create intuitive layouts and optimize performance. On the back end, I work with PHP and have experience with Java in microservices architectures. Additionally, I handle some DevOps tasks, configuring cloud environments in Google Cloud and Azure, as well as optimizing website performance through hosting setups and tools like PageSpeed."

SOBRE MINHA FUNÇÃO ATUAL:

Regarding my current role at EARQ Consulting, I can say: EARQ is a company focused on process and data automation. My responsibilities include developing and maintaining software solutions, overseeing RPA projects, and improving the performance of websites and applications. I collaborate with clients to define project requirements, develop intuitive interfaces for applications and websites, and provide training to end-users.

I am also responsible for performance optimization for web hosting, ensuring that our websites achieve the best scores on tools like PageSpeed and GTmetrix. Recently, I developed the 'Recognition App' using Angular and Java, which successfully streamlined document processing and improved data accuracy for our clients.

1. Complete the sentences with the correct form of “to be”:
   1. I **am**  a team worker.
   2. One of the most important skills for a software developer is problem-solving.
   3. He \_\_**is**\_\_ an expert in database management.
   4. The latest version of the software \_\_**is not**\_\_ more user-friendly and intuitive. (negative)
   5. Technology \_\_**is**\_\_ changing fast.
   6. As a software developer, you \_\_**are**\_\_ responsible for writing clean and efficient code.
   7. \_\_**Are**\_\_ they constantly looking for ways to improve the software? (question)
   8. When she \_\_**is**\_\_ working on a team, communication and collaboration are key.
   9. \_\_**Is**\_\_ virtual reality technology becoming increasingly popular in the gaming industry? (interrogative)
   10. The latest software update \_\_**is**\_\_ more e stable and secure than the

previous version. (negative)



1. Complete the sentences with the correct form of “to have”.
   1. We **\_\_have\_\_** the knowledge and the technology.
   2. He **\_\_does\_not\_\_** a high-speed internet connection. (negative)
   3. I **\_\_have\_\_** a new gaming mouse.
   4. **\_\_Does\_\_** She **\_\_have\_\_** a backup for her important files? (interrogative)
   5. They **\_\_do\_not\_have\_\_** access to the company's internal network. (negative)
   6. It **\_\_has\_\_** a touch screen display.
   7. You **\_\_have\_\_** a lot of storage space on your phone.
   8. \_\_Do\_\_ you **\_\_have\_\_** a password manager installed on your computer? (interrogative)
   9. She **\_\_does\_not\_have\_\_** a printer at home. (negative)
   10. **\_\_Do\_\_** they **\_\_have\_\_** any experience with coding? (interrogative)
2. Combine the abilities and work experiences with the correct description:

a. Python

b. Experience with databases

c. Knowledge of algorithms (algorit dams -ritimo é assim também)

d. Strong teamwork skills

e. Familiarity with web development

(a ) A programming language often used in data analysis development.

(d ) The ability to work effectively with others to achieve a common goal.

(c ) Understanding of step-by-step procedures used to solve problems in computer programming.

(b ) Experience in working with organized sets of data, usually in management systems like SQL or NoSQL.

(e ) Experience in creating websites and applications for the internet, including HTML, CSS, and JavaScript.

1. **Now it is with you! Imagine that you are in a job interview and create 5 short sentences talking about yourself, your abilities or work.**

1. I have six years of experience as a Software Developer and RPA Specialist, focusing on process automation and efficient solutions.

2. I am skilled in front-end development using Angular and TypeScript, creating intuitive and user-friendly interfaces.

3. My expertise includes working with databases like SQL Server and MongoDB, as well as cloud environments like Google Cloud and Azure.

4. I have successfully developed and optimized applications and websites, achieving high performance in tools like PageSpeed and GTmetrix.

5. I thrive on solving complex problems and collaborating with clients to deliver scalable and innovative software solutions.

UNIT 2

1. Creation of new software, RPA monitoring, corrections and improvements.
2. Participation in meetings with clients, defining project requirements based on the demands requested.

The same thing as today

### **2: Complete the sentences with the correct form of the verb** given in parentheses:

1. Our team **uses** (use) agile methodologies for project management.
   * **Explicação:** O sujeito "Our team" é singular, por isso usamos "uses" na 3ª pessoa do singular.
2. The software **does not run** (run) on multiple operating systems. (negative)
   * **Explicação:** Em frases negativas no presente simples, usamos "does not" + o verbo na forma base (run).
3. How often **do** you **attend** (attend) coding meetups? (interrogative)
   * **Explicação:** Em perguntas, usamos o auxiliar "do" com o sujeito "you" e o verbo na forma base (attend).
4. He **works** (work) on frontend development projects.
   * **Explicação:** O sujeito "He" está na 3ª pessoa do singular, então usamos "works".
5. The company **provides** (provide) training programs for new hires.
   * **Explicação:** O sujeito "The company" é singular, por isso usamos "provides".
6. We **follow** (follow) coding standards to ensure code quality.
   * **Explicação:** O sujeito "We" é plural, então usamos a forma base do verbo (follow).
7. The team **collaborates** (collaborate) on GitHub for version control.
   * **Explicação:** O sujeito "The team" é singular, então usamos "collaborates".
8. How frequently **do** you **update** (update) your development environment? (interrogative)
   * **Explicação:** Em perguntas, usamos "do" com o sujeito "you" e o verbo na forma base (update).
9. The developer **does not write** (write) clean and efficient code. (negative)
   * **Explicação:** Em frases negativas no presente simples, usamos "does not" + a forma base (write).
10. The company **invests** (invest) in the latest software development tools.

* **Explicação:** O sujeito "The company" é singular, por isso usamos "invests".

### **3: Complete the dialogue**

1. Hey, Lisa! How **are** (you/to be) doing in your new project?
   * **Explicação:** "How are you doing?" é a forma padrão para perguntar no presente contínuo.
2. Hi, John! I **am** (to be) working on a web application.
   * **Explicação:** Para descrever ações em andamento no presente, usamos o presente contínuo: "I am working."
3. It **has** (have) some cool features.
   * **Explicação:** O sujeito "It" está na 3ª pessoa do singular, então usamos "has".
4. What programming language **are** (you/to be) using for the project?
   * **Explicação:** No presente contínuo interrogativo, usamos "are" + sujeito + verbo no gerúndio.
5. We **are using** (use) Python and JavaScript.
   * **Explicação:** Presente contínuo para indicar o que está sendo usado no momento.
6. They **are** (be) perfect for our requirements.
   * **Explicação:** O verbo "be" no presente simples concorda com o sujeito "They".
7. How often **do** you **have** (you/have) team meetings?
   * **Explicação:** No presente simples interrogativo, usamos "do" + sujeito + verbo na forma base (have).
8. We **have** (have) team meetings twice a week.
   * **Explicação:** No presente simples afirmativo, o verbo "have" não muda com o sujeito "We".
9. It **helps** (help) us stay aligned and discuss any challenges.
   * **Explicação:** O sujeito "It" é singular, então usamos "helps".
10. Collaboration **plays** (play) a crucial role in software development.

* **Explicação:** O sujeito "Collaboration" é singular, então usamos "plays".

1. By the way, **have** (you/have) you attended any coding conferences recently?

* **Explicação:** Aqui usamos o presente perfeito ("have attended") para falar de ações recentes com relevância no presente.

1. Yes, I **have** (have). Last month, I attended a conference on machine learning.

* **Explicação:** "I have" é a resposta curta correta no presente perfeito.

1. That's awesome! I **am** (to be) planning to attend a frontend development conference next month.

* **Explicação:** O presente contínuo "am planning" indica um plano futuro.

**4: Based on you knowledge about Software Engineer, fill the gaps with the correct activities:**

1. Write code according to the design specifications, employ various programming languages, frameworks, and tools to implement the required functionality, and ensure the code is well-structured and efficient.  
   **Answer:** **Coding and Implementation**
2. Write code using programming languages, project managers, business analysts, and designers.  
   **Answer:** **Collaboration**
3. Perform unit testing, integration testing, and other testing methodologies.  
   **Answer:** **Testing and Debugging**
4. Monitor its performance, address any issues that arise, and release updates or patches as needed.  
   **Answer:** **Maintenance and Upgrades**
5. Actively participate in meetings, discussions, and code reviews to share knowledge, provide insights, and ensure the overall quality of the software.  
   **Answer:** **Collaboration**
6. Create the overall structure and system architecture of applications, ensuring it meets the necessary standards and best practices.  
   **Answer:** **Design and Architecture**
7. Need to stay updated with the latest trends, learn new skills, and adapt to changing industry standards to enhance their proficiency.  
   **Answer:** **Continuous Learning**
8. Document their code and create technical documentation to help other developers understand the functionality, structure, and usage of the software.  
   **Answer:** **Documentation**