



WIL Interview Questions

Deadline: 08 February 2023 - 12H00

Please complete this assessment on

- *a word document or*
- *write on a physical paper and scan it.*
- *Please write neatly and legibly*

Attach the file on your email upon submission.

1. Can you discuss the **CAP theorem** and its implication for distributed systems?
2. What is **agile development** and how does it differ from traditional software development?
3. Using an example explain how hash tables work. Further discuss which data structure would you prefer between an array and a hash table when you expect to process big data from different users.
4. What is **data modelling**. How would you model the relationship between a Facebook user and friend requests they have illustrate this using a diagram.
5. What make up a web application explain using the role of a front-end and back-end developer?
6. Explain with an example how would you use **git**.
7. Can you describe your experience with **software design** and **architecture**.
8. Can you describe a challenging problem you solved recently and how you approached it.
9. Can you explain process you typically follow when debugging difficult issues?
10. Give an example of a programming language that you are familiar with. Explain how this program execute programs.

Reminder

Your submission must follow the convention below.

Submission email: recruitment@epftechhub.org

Subject: WIL Programme 2023 – Technical Interview - [NAME & SURNAME]

Attachment: ID, CV, Qualification Transcript/Academic Record & Grade 12 Certificate, Recommendation letter
(Please name your files in the following manner... **name_surname_cv.pdf, name_surname_qualification.pdf** etc.)

Body: Your body should include your name, surname, email, contact number, address, and Link to your Repo.

