

## Exercise 1.1 Learning Journal:

1. In your own words, what is the difference between frontend and backend web development? If you were hired to work on backend programming for a web application, what kinds of operations would you be working on?

The difference between front end and back end are simple: Front end is the UI, it is how you interact with the backend. Backend is the brains/logic behind the interactions of the UI. If I were hired as a back end operator, I would probably be working to create, manage, and update the database and API.

2. Imagine you're working as a full-stack developer in the near future. Your team is asking for your advice on whether to use JavaScript or Python for a project, and you think Python would be the better choice. How would you explain the similarities and differences between the two languages to your team? Drawing from what you learned in this Exercise, what reasons would you give to convince your team that Python is the better option?

As a full-stack developer advising my team between JavaScript and Python for a project, I'd highlight Python's simplicity, readability, and strong support for data science and machine learning. Python's clean syntax facilitates faster development and reduces the likelihood of errors, making it an ideal choice for projects where ease of learning and code maintenance are crucial. Additionally, Python's extensive libraries and active community ensure robust support for various tasks, especially in data-related domains, enhancing productivity and scalability.

3. Now that you've had an introduction to Python, write down 3 goals you have for yourself and your learning during this Achievement. You can reflect on the following questions if it helps you. What do you want to learn about Python? What do you want to get out of this Achievement? Where or what do you see yourself working on after you complete this Achievement?

I want to learn more about Python's uses in real world varieties. From this Achievement, I would like to comfortably learn the syntax and interaction of python in comparison to my first language which was JavaScript. I see myself looking into python modules in the future, and using them in real world projects to achieve a first hand understanding of its versatility.