

# **My learning journal for Python programming**

## **Reflections on My Programming Journey**

Learning how to code was a giant step away from my past experiences. My past experiences are well-rooted in digital marketing, product development, and industry research. I came to wanting to code through working with developers on getting the right software solutions for my past work and was fascinated by it. I loved working with React, Angular, JavaScript, HTML, CSS, and more.

My knowledge of Python is that it is used for so many different tasks, but very often used for numbers and math, machine learning, and is the backbone of many backend structures due to its easy readability and implementation.

The main challenges that I came up with in the course it was getting the hang of testing endpoints, setting up databases, and understanding documentation (which over time is getting much better) I look forward to the challenges that Python will throw my way as what won't break me will make me stronger.

### **1.1 Getting started with python**

Learning goals:

- Summarize the uses and benefits of Python for web development
- Prepare your developer environment for programming with Python

Reflections:

- Frontend development is what the end user client will interact with, this includes, styling, and making it a great user experience. If I were a backend developer, I would look for the best framework to program the back end with (until now MongoDB, and Node.JS) I would implement the database structure and create the script that would communicate with both ends. This will require ongoing testing using Postman and/or test-driven development, and end-to-end testing.
- I would explain to potential teammates and managers that using Python would be the right choice for the built-in package system and available packages, making the developing process much easier as there is a lot of documentation on the packages. The code readability is a lot more reliable when working together with others. The syntax is simpler and easier to implement. And when it comes to numbers and many other complex tasks it is the most suitable.
- The main goals of this achievement is, to understand commands that are used to build in Python. The file structure and package management. Understanding the basic syntax of building and running scripts in Python

## 1.2 Data types in python

Learning goals:

- Explain variables and data types in Python
- Summarize the use of objects in Python
- Create a data structure for your Recipe app

Reflections:

- Python is a very different beast than JS and other languages I learned. I found it interesting that I didn't use the CLI when developing in JS. Overall it was pretty pleasant
- The different variable types are something that I will probably get used to as I move along as there are many different things there that need getting used to, which will take more time
- Creating the data structure was a lot more interesting than in NodeJS and I was quick to learn it. This can be because I have the experience of finishing the full stack immersion course

## 1.3: Operators & Functions in Python

Learning goals:

- Implement conditional statements in Python to determine program flow
- Use loops to reduce time and effort in Python programming
- Write functions to organize Python code

Reflections:

- This was a bit easier than the last task as I was more used to it and got the hang of it quicker. There was a lot of information that I still need to get used to.
- Understanding the concept of loops in Python was a bit easier than the JS as everything is more straightforward
- Writing the function and getting used to the indentation was a bit of a learning curve but i now have the hang of it

## 1.4: Operators & Functions in Python

Learning goals:

- 1.3: File Handling in Python

Reflections:

- This task was very interesting and made me curious to read through Python documentation, which made completing this task much easier. My experience at CF allowed me to get through this quickly.
- The syntax is something that again will take some getting used to
- File handling seems very logical and easy to understand in Python

## 15: Object Oriented Programming in Python

Learning goals:

- Apply object-oriented programming concepts in the Recipe App

Reflections:

- Understanding the chain of events when applying object-oriented programming, is very cumbersome. This will take lots of practice
- I had a much easier time understanding what was going on than in past tasks
- Syntax is a lot easier to comprehend.
- Troubleshooting and debugging were significantly easier and I was able to identify issues very quickly compared to the last achievement in this course

## 15: Database in Python

Learning goals:

- Create a MySQL database for your Recipe app

Reflections:

- Being that I have now worked with MongoDB and SQL, I find SQL to be a lot more logical.
- I feel the entire connection, and query process to be more enjoyable and
- I now have a better understanding of what it means to manipulate data
- I can't wait to work more with SQL

## 2.2: Django Project Set Up

- Describe the basic structure of a Django project
- Summarize the difference between Django projects and apps
- Create a Django project and run it locally
- Create a superuser in the admin interface of a Django web application

Reflections:

- I found the the documentation on Django to be very straightforward making this task easy to complete
- The concept of projects and apps in Django makes this easy to comprehend, and I am excited to do this
- Create the project and superuser was straightforward
- I love the concept of making a user admin, it add a whole new element that I did not know exist
- Overall I am really enjoying Django