

## Technologies to learn to become a Back End Developer (Python/Django)

- **Linux** - be proficient using Ubuntu for example and the CLI and understand how the shell works, what are environment variables, subshells, processes/tasks, etc...
- **Docker (and docker-compose)** - what are containers and how they work (conceptually) and how to create and run ones
- **Git** - what does version control system mean and how to use Git.
- **RDB (relational databases)** - what are relational databases, and understand tables, how to create them and make relations between them as needed... also understand that through SQLite and PostgreSQL (preferred) or MySQL
- **Python** - how to write python very well and understand its OOP implementation...
- **Virtualenv** - And how to create virtual environments for python to isolate it from the system's installed version...
- **Virtualenvwrapper** to manage virtual environments easily
- **Pyenv** - to manage python versions globally for your user on the system, instead of using the system's installed python
- **Django** - to build the back-end part of a website. Be proficient using Models, Views, Templates, Class-Based-Views.
- **DRF (Django Rest Framework)** - to create REST APIs for mobile apps and SPAs

> - All that isn't learned in one day, of course. Take your time.  
>- You can learn those skills through online courses as I did before.  
>- It will seem intimidating to learn all that at once, but try to grasp as much as you can, and you'll revisit what you learned in the future to refine your knowledge and understand better.

## Here are some resources to learn such skills

>- You're not limited to the resources I mention, Google whatever you don't understand event while studying the mentioned resources.

**Ubuntu** for linux

- <https://www.youtube.com/playlist?list=PLWXRxAk4bUzc9gq-W2xWDe9zEaDcowLfs>

**Docker**

- Just learn from its documentation, and through any course that uses it while building a project

## Git

- <https://www.udacity.com/course/version-control-with-git--ud123>

## RDB

- Foundations of Programming: Databases (from lynda.com)
  - <https://archive.org/download/LYNDA.COM.FOUNDATIONS.OF.PROGRAMMING>

Python, Virtualenv, Virtualenvwrapper, Pyenv

- <https://nostarch.com/pythoncrashcourse2e>
- continuously read articles from these websites:
  - <https://realpython.com/>
  - <https://dbader.org/>
  - <https://treyhunner.com/>
- Listen to podcasts like (you can find them on Google Podcasts App on android):
  - <https://djangochat.com/>
  - <https://pythonbytes.fm/>
  - <https://talkpython.fm/>
- Continuously practice what you read and see for your eyes what happens.
- Google for Virtualenv, Virtualenvwrapper, Pyenv, and read articles about them from realpython

Django and DRF (Django-REST-Framework)

- <https://djangoforbeginners.com/>
- <https://djangoforapis.com/>
- <https://djangoforprofessionals.com/>
- <https://www.amazon.com/dp/1788472489/>
- <https://www.amazon.com/Django-Example-powerful-reliable-applications/dp/1838981950>

These two courses are important to learn TDD with DRF

- <https://www.londonappdeveloper.com/product/build-a-backend-rest-api-with-python-django-beginner/>
- <https://www.londonappdeveloper.com/product/build-a-backend-rest-api-with-python-django-advanced/>

You can get the above-mentioned books for free from this website

<https://b-ok.africa/> (Buy them whenever you can, please)

To get a job, you need

- patience... a huge amount of it!
- A good CV
- Open source projects that show the above-mentioned skills (put them in the CV, too)
- Continuous improvement in your skills and too much job hunting!
- And preferably open-source contributions

--

Best wishes.