

**Subject:** AI & Software Development

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Salam Milad,  
hope, you are doing well.

Here is a list of courses ordered by importance:

1) Python Part I – Part IV

<https://www.udemy.com/user/fredbaptiste/>

Github page: <https://www.udemy.com/user/fredbaptiste/>

usually, all Udemy courses are quite expensive,  
but you can put those courses on your wishlist and udemy will offer a discount within few hours/days

2) Algorithms Specialization

<https://www.coursera.org/specializations/algorithms>

3) In addition or as an alternative:

<https://leetcode.com/explore/featured/card/leetcode-interview-crash-course-data-structures-and-algorithms/>

4) Daily leetCode challenges -> also helpful for interview process:

<https://leetcode.com/problemset/all/>

- you need to register & then you can submit your solution and attend the discussion board
- in the first few weeks quite hard to solve some of the hard problems -> keep going

5) Pandas at Udemy:

The Ultimate Pandas Bootcamp: Advanced Python Data Analysis

<https://www.udemy.com/course/the-ultimate-pandas-bootcamp-advanced-python-data-analysis/>

6) Finally ML at Coursera:

a) Machine Learning Specialization by Ng

b) Deep Learning Specialization by Ng

c) TensorFlow: Advanced Techniques Specialization by Laurence Moroney

Optional:

d) Natural Language Processing Specialization by Younes Bensouda Mourri, Łukasz Kaiser, Eddy Shyu  
e) Generative Adversarial Networks (GANs) Specialization by Sharon Zhou, Eda Zhou, Eric Zelikman

If you want to learn PyTorch instead/ in addition of TensorFlow then look at the Udemy course:  
<https://www.udemy.com/course/pytorch-for-deep-learning/>

This is a quite long list and it might take you more than 1/2 year if you work on it full time.  
Hopefully, you will find a job soon, but until then, I would suggest to work on this and try to get done as much as possible. Once you have a job, you can learn the remaining part on the job.

- Do not fill the gaps in Coursera / Udemy courses. Try to reimplement the whole notebooks from scratch.
- In addition try to work with an IDE, such as PyCharm or VS Code and get used to git/github.

Wish you best of luck and keep learning.

Mohammad

