# Python Developer 中文版

## 引言

职业目标：Python 后端开发工程师、数据科学工程师

本人从 2018 年 10 月毕业后开始工作，因为技术水平不足，而无法写出清晰凝练的个人博客。于是，希望在这里首先记录自己在工作学习中遇到的知识点，温故而知新。

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## Python

### Python 基础

* [Learn python3 in Y minutes](https://learnxinyminutes.com/docs/python3/) :star:
* [Built-in Types](https://docs.python.org/3/library/stdtypes.html)
* [变量/可变-不可变类型/局部-全局变量](https://www.cnblogs.com/guigujun/p/9926446.html) :star:
* [python-sets-are-mutable](https://stackoverflow.com/questions/14193438/are-python-sets-mutable)
* [Python os.getenv() Examples](https://www.programcreek.com/python/example/210/os.getenv)
* [Python 基础：is 和==的区别](https://www.cnblogs.com/lilz/p/9410319.html)
* [python 的星号（\*）和双星号（\*\*）用法](https://www.cnblogs.com/empty16/p/6229538.html)
* [@classmethod and @staticmethod for beginner](https://stackoverflow.com/questions/12179271/meaning-of-classmethod-and-staticmethod-for-beginner) :star:
* [Python's Instance, Class, and Static Methods](https://realpython.com/instance-class-and-static-methods-demystified/)

### Python 进阶

* [Absolute vs Relative Imports in Python](https://realpython.com/absolute-vs-relative-python-imports/)
* [itertools — Functions creating iterators for efficient looping](https://docs.python.org/3/library/itertools.html#module-itertools) :star:
* [enum — Support for enumerations](https://docs.python.org/3/library/enum.html) :star:

```python from enum import Enum

class Color(Enum): RED = 1 GREEN = 2

print(Color(2).name) print(Color(2).value) print(Color.GREEN.value) print(list(Color)) ```

* [python 语法之 装饰器 decorator](https://www.cnblogs.com/yutongzhu/p/5615764.html) :star: :star2:
* [Python decorator](https://chase-seibert.github.io/blog/2013/12/17/python-decorator-optional-parameter.html) :star: :star2: :heart:
* [Python Decorators - \_\_call\_\_ in class](https://stackoverflow.com/questions/19497771/python-decorators-call-in-class)
* [元类/metaclasses](https://stackoverflow.com/questions/100003/what-are-metaclasses-in-python) :star: :star2:
* [为什么 Python 不支持函数重载](https://www.zhihu.com/question/20053359)
* [Intro to Threads and Processes in Python](https://medium.com/%40bfortuner/python-multithreading-vs-multiprocessing-73072ce5600b)
* [improve-your-python-performance](https://www.monitis.com/blog/7-ways-to-improve-your-python-performance/)
* [Awesome Python Repo in Github](https://github.com/vinta/awesome-python)
* [ansii、unicode、utf8 区别和关系](https://www.cnblogs.com/a-xu/p/4448032.html)
* [PyCodeObject 初探](https://blog.csdn.net/jasonblog/article/details/7338840)
* [.pyc 和 PyCodeObject 是什么](https://blog.csdn.net/huanhuanq1209/article/details/79724632)
* [pip commands](https://pip.pypa.io/en/stable/user_guide/)
* [PyPI 使用国内源](https://www.cnblogs.com/sunnydou/p/5801760.html)
* [python-closures 闭包](https://www.geeksforgeeks.org/python-closures/)
* [python 数据结构之哈希表](https://www.cnblogs.com/kumata/p/9157738.html)
* [python 数据结构与算法 29-1 哈希查找](https://www.cnblogs.com/cxchanpin/p/7389133.html)
* [Python 中的垃圾回收机制](http://python.jobbole.com/87843/)

#### Python - gevent

* [python 的异步 gevent、async、await](https://www.jianshu.com/p/0a91a446dda8) :star:
* [关于 gevent 的几点思考](https://www.jianshu.com/p/861f29ac68e8)

#### 进程、线程、协程

* [进程、线程、协程及 IO 模型](https://www.cnblogs.com/xuyaping/p/6825115.html) :star:
* [python 并发编程之多进程、多线程、异步和协程](https://www.cnblogs.com/tyomcat/p/5486827.html)

### Python 实战

* [solve dictionary changed size during iteration](https://stackoverflow.com/questions/13519644/how-to-solve-dictionary-changed-size-during-iteration-in-python)
* [What does metavar and action mean in argparse in Python?](https://stackoverflow.com/questions/19124304/what-does-metavar-and-action-mean-in-argparse-in-python)
* [Python requests.post 方法中 data 与 json 参数区别](https://www.cnblogs.com/yanlin-10/p/9820694.html)
* [Python requests.post 方法中 data 与 json 参数区别 2](https://www.jianshu.com/p/fae6bd1b2d76)
* [Difference between using requests.get() and requests.session().get()?](https://stackoverflow.com/questions/32986228/difference-between-using-requests-get-and-requests-session-get)
* [发布 Python 为可执行文件](https://www.cnblogs.com/mywolrd/p/4756005.html)
* [Python 3.6 Typing Syntax / Type hint](https://medium.com/%40ageitgey/learn-how-to-use-static-type-checking-in-python-3-6-in-10-minutes-12c86d72677b)
* [Python 3.6 Typing Syntax / Type hint2](https://stackoverflow.com/questions/38727520/adding-default-parameter-value-with-type-hint-in-python)
* [create-union-of-all-values-contained-in-multiple-lists](https://stackoverflow.com/questions/2151517/pythonic-way-to-create-union-of-all-values-contained-in-multiple-lists)
* [一些改善 Python 程序的建议](https://mp.weixin.qq.com/s/ndfQUAjgLZYX1IUuF3K2QA)
* [Intermediate Python(Book)](http://book.pythontips.com/en/latest/index.html)
* [set a number to NaN or infinity](https://stackoverflow.com/questions/5438745/is-it-possible-to-set-a-number-to-nan-or-infinity)
* [get an environment variable in Python using os.environ](https://www.systutorials.com/241675/how-to-get-an-environment-variable-in-python/)

### Python 数据科学 基础

* [Top 20 Python libraries for data science in 2018](https://medium.com/activewizards-machine-learning-company/top-20-python-libraries-for-data-science-in-2018-2ae7d1db8049)
* [Creating Pandas DataFrames from Lists and Dictionaries](https://pbpython.com/pandas-list-dict.html) :star:
* [Applying Operations Over pandas Dataframes](https://chrisalbon.com/python/data_wrangling/pandas_apply_operations_to_dataframes/)
* [用 matplotlib 绘制柱状图和饼图](http://ningning.today/2015/04/17/python/%E7%94%A8matplotlib%E7%BB%98%E5%88%B6%E6%9F%B1%E7%8A%B6%E5%9B%BE%E5%92%8C%E9%A5%BC%E5%9B%BE/)
* [Seaborn 热图绘制](https://blog.csdn.net/sunchengquan/article/details/78573244)
* [10 个提高工作效率的 Pandas 小技巧](https://mp.weixin.qq.com/s/cH7glwk_YrBJ-48tY-hnFQ)

### Python 数据科学 实战

* [pandas.pivot\_table](https://pandas.pydata.org/pandas-docs/stable/reference/api/pandas.pivot_table.html)
* [Pandas date\_range to generate monthly data](https://stackoverflow.com/questions/34915828/pandas-date-range-to-generate-monthly-data-at-beginning-of-the-month)
* [numpy.insert](https://www.tutorialspoint.com/numpy/numpy_insert.htm)
* [Remove rows with duplicate indices](https://stackoverflow.com/questions/13035764/remove-rows-with-duplicate-indices-pandas-dataframe-and-timeseries/34297689#34297689)

## Python 面试

* [Python 面试 from Github](https://github.com/taizilongxu/interview_python) :star: :star2:
* [coding-interview-tips](https://realpython.com/python-coding-interview-tips/) :star:
* [python\_interview\_question](https://github.com/kenwoodjw/python_interview_question)
* [2018 最常见的 Python 面试题](https://blog.51cto.com/13719825/2172133)

## Django web 框架

### Django 基础

* [Object-Relational Mapping (ORM)](https://stackoverflow.com/questions/1279613/what-is-an-orm-and-where-can-i-learn-more-about-it)
* [Django models.py, what's the difference between default, null, and blank?](https://stackoverflow.com/questions/4384098/in-django-models-py-whats-the-difference-between-default-null-and-blank)
* [Django Making queries](https://docs.djangoproject.com/en/dev/topics/db/queries/#complex-lookups-with-q-objects) :star:
* [Django queries - Aggregation](https://docs.djangoproject.com/en/2.2/topics/db/aggregation/) :star:
* [Django Admin 管理工具](http://www.runoob.com/django/django-admin-manage-tool.html)
* [Django 框架全面讲解](https://www.cnblogs.com/LiCheng-/p/6920900.html) :star: :star2:
* [Django 的中间件原理&执行](https://blog.csdn.net/weixin_42181824/article/details/81125406)
* [uWSGI+django+nginx 的工作原理流程与部署历程](https://blog.csdn.net/c465869935/article/details/53242126) :star:
* [Setting up Django and your web server with uWSGI and nginx 官方](https://uwsgi-docs.readthedocs.io/en/latest/tutorials/Django_and_nginx.html)
* [每个 Model 自动添加上必备 3 字段, create\_time/update\_time](https://segmentfault.com/q/1010000010700842) :star:
* [Django 的时间字段 DateTimeField](https://www.cnblogs.com/wuxunyan/p/9266888.html)
* [Django--自定义 Command 命令](https://www.cnblogs.com/polly-ling/p/9830060.html) :star:
* [Django Model 规范](https://steelkiwi.com/blog/best-practices-working-django-models-python/) :yellow\_heart: :star:
* [Django HttpResponse 与 JsonResponse](https://www.jianshu.com/p/94785f71fdd8)
* [Django URL 常用模式匹配大全](https://www.jianshu.com/p/257fafc217df)

### Django 进阶

* [Custom Django Management Commands](https://simpleisbetterthancomplex.com/tutorial/2018/08/27/how-to-create-custom-django-management-commands.html) :star: :star2:
* [Django 的缓存机制](https://www.cnblogs.com/liuwei0824/p/8520375.html)
* [related\_name used for in Django?](https://stackoverflow.com/questions/2642613/what-is-related-name-used-for-in-django)
* [XSS 与 CSRF](https://segmentfault.com/a/1190000007059639)
* [Django 之 CSRF](https://segmentfault.com/a/1190000007059639)
* [CSRF 攻击原理&Django 的应用方法](https://blog.csdn.net/u012556900/article/details/57412707)
* [OAuth Authentication in Django with social-auth](https://medium.com/trabe/oauth-authentication-in-django-with-social-auth-c67a002479c1)
* [A Django content management system](https://wagtail.io)

### Django 实战

* [combine 2 or more querysets in a Django view](https://stackoverflow.com/questions/431628/how-to-combine-2-or-more-querysets-in-a-django-view)
* [django 项目之 api 验证部分](https://www.cnblogs.com/ArmoredTitan/p/7639387.html) :star:
* [django 之基于 requests API 验证](https://blog.csdn.net/bbwangj/article/details/86526228)
* [drf-yasg - Yet another Swagger generator](https://github.com/axnsan12/drf-yasg) :star:
* [Django queryset values\_list return a list](https://stackoverflow.com/questions/37140426/does-django-queryset-values-list-return-a-list-object) :star:
* [objects.all().aggregate(Max('rating'))](https://stackoverflow.com/questions/844591/how-to-do-select-max-in-django)
* [Django advanced LIKE filtering](https://stackoverflow.com/questions/53087065/django-advanced-like-filtering)
* [Django JSON response error status](https://stackoverflow.com/questions/35059916/django-json-response-error-status)
* [RESTful Error Messages with Django by JsonResponse](https://medium.com/%40mwhitt.w/restful-error-messages-with-django-537047892dff)
* [Excluding Basic Authentication In A Single View - Django Rest Framework](https://stackoverflow.com/questions/33539606/excluding-basic-authentication-in-a-single-view-django-rest-framework)
* [Linux + Nginx + Uwsgi + Django 搭建单服务实现多域名访问](https://mp.weixin.qq.com/s/baYuDLhlFsFrBXqGq9pBDA)
* [使用 django-crontab 实现定时任务](https://www.jianshu.com/p/e4a8f173b4b0)
* [Where to store secret keys DJANGO](https://stackoverflow.com/questions/15209978/where-to-store-secret-keys-django)

### Django 面试

* [Django 的笔试题 2015](http://python.jobbole.com/81871/)
* [Django 的认识，面试题](https://www.cnblogs.com/chongdongxiaoyu/p/9403399.html)
* [Tornado - a Python web framework](http://www.tornadoweb.org/en/stable/)
* [python web 框架比较：Django VS Tornado](http://www.maiziedu.com/article/9990/)

## 数据库

### SQL/MySQL

* [SQL 速查表](https://github.com/enochtangg/quick-SQL-cheatsheet/blob/master/README_zh-hans.md) :star: :yellow\_heart:
* [Learn SQL in Y minutes](https://learnxinyminutes.com/docs/sql/) sql SELECT dept\_name FROM departments WHERE dept\_name LIKE '%en%'; SELECT \* FROM departments WHERE dept\_name LIKE 'S\_\_\_\_'; -- with an 'S' and has exactly 4 characters after it. INSERT INTO tablename1 VALUES('Richard','Mutt'); SELECT MAX(released) FROM albums; -- COUNT(), SUM(), AVG(), MIN() / MAX() UPDATE tablename1 SET fname='John' WHERE lname='Mutt';
* [sql-cheat-sheet-for-data-scientists](https://data36.com/wp-content/uploads/2018/12/sql-cheat-sheet-for-data-scientists-by-tomi-mester.pdf)
* [MySQL 索引入门简述](https://www.awaimai.com/531.html) :star:
* [MySQL 索引背后的数据结构及算法原理](http://blog.jobbole.com/24006/)
* [SQL--contains 用法](https://blog.csdn.net/gz775/article/details/6822214)
* [Mysql 导出(多张表)表结构及表数据 mysqldump 用法](https://blog.csdn.net/kkk0526/article/details/78281694)
* [OLAP、OLTP 的介绍和比较](https://blog.csdn.net/zhangzheng0413/article/details/8271322/)

### Redis

* [redis 基础.md - 特点/优势/数据类型](https://github.com/ScrappyZhang/python_web_Crawler_DA_ML_DL/blob/master/%E6%95%B0%E6%8D%AE%E5%BA%93%E6%93%8D%E4%BD%9C/redis/redis%E5%9F%BA%E7%A1%80.md) :star:
* [CS-Notes/notes/Redis.md - 一文看懂 Redis](https://github.com/CyC2018/CS-Notes/blob/master/notes/Redis.md)

### InfluxDB

* [influxdb 使用说明](https://www.cnblogs.com/jackyroc/p/7677508.html)
* [时序数据库 InfluxDB 使用详解](https://www.jianshu.com/p/a1344ca86e9b)
* [基于 InfluxDB+Grafana 打造大数据监控利器](https://mp.weixin.qq.com/s/3HW9hOnsZtcdVT15lBmOfQ)

### GraphQL - Get what the clients wants, no more, no less.

* [Django 使用 GraphQL 详解](https://blog.csdn.net/ns2250225/article/details/79348914)
* [Building a GraphQL API with Django](https://stackabuse.com/building-a-graphql-api-with-django/)

## Git 代码版本管理

* [git 常用命令列表](https://www.awaimai.com/179.html)

``` $ git remote add origin git@github.com:yeszao/dofiler.git # 配置远程git版本库 $ git pull origin master # 下载代码及快速合并 $ git push origin master # 上传代码及快速合并 $ git fetch origin # 从远程库获取代码

$ git add . # 跟踪所有改动过的文件 $ git add # 跟踪指定的文件

$ git branch # 显示所有分支 $ git checkout master # 切换到 master 分支 $ git checkout -b dev # 创建并切换到dev分支 $ git commit -m "first version" # 提交

$ git status # 查看状态 $ git log # 查看提交历史 ```

* [Git: Delete a branch (local or remote)](https://makandracards.com/makandra/621-git-delete-a-branch-local-or-remote)

## Linux 命令行 基础

* [Linux 常用命令 - 基础](https://note.youdao.com/ynoteshare1/index.html?id=7d073d849ae46be7f44fe31c7eed3fdc&type=note)
* [linux 查找日志技巧](https://www.cnblogs.com/chjbbs/p/5761741.html)
* [Linux：PS 命令详解与使用](https://www.cnblogs.com/wxgblogs/p/6591980.html)

bash tail -f -n 20 filename # 动态展示 file 最后20行 cat filename | head -n 3000 | tail -n +1000 # 显示 1000 行到 3000 行 cat filename | tail -n +3000 | head -n 1000 # 从第 3000 行开始，显示 1000(即显示 3000~3999 行) grep Aug /var/log/messages # 在文件 '/var/log/messages'中查找关键词"Aug" grep ^Aug /var/log/messages # 在文件 '/var/log/messages'中查找以"Aug"开始的词汇 ps aux # 查看系统所有的进程数据 ps ax # 查看不与 terminal 有关的所有进程 ps -aux | grep test # 查找进程名为 test 的进程 kill -9 pid #（-9 表示强制关闭） pkill 程序的名字 # 杀死进程

## Docker 基础

* [Stop and remove all docker containers and images](http://blog.baudson.de/blog/stop-and-remove-all-docker-containers-and-images)

## 后台/Backend

### Nginx

* [Nginx 相关介绍(Nginx 是什么?能干嘛?)](https://www.cnblogs.com/wcwnina/p/8728391.html) :star:
* [Nginx 安装与部署配置以及 Nginx 和 uWSGI 开机自启](https://www.cnblogs.com/wcwnina/p/8728430.html)

### ZooKeeper

* [ZooKeeper 典型应用场景](https://www.cnblogs.com/linjiqin/p/6063758.html) :star:
* [zookeeper 干啥的](https://blog.csdn.net/u012540337/article/details/51916821)
* [同是 ZooKeeper - 进阶](https://my.oschina.net/u/3981166/blog/2249082)
* [zookeeper 的可视化 web 界面](https://www.cnblogs.com/lenmom/p/9167823.html)
* [kazoo 使用教程 - Python 使用 zookeeper](http://www.likuli.com/archives/746/)

### Jenkins

* [Jenkins 之定时构建](https://blog.csdn.net/zzy1078689276/article/details/77520441) :star:
* [Jenkins 构建触发器（定时构建项目](https://blog.csdn.net/e295166319/article/details/52920036)

### Sentry

* [业务监控工具 Sentry 的搭建与使用](http://www.cnblogs.com/scharfsinnig/p/7467958.html) :yellow\_heart: :star2:
* [Sentry - 处理异常日志的正确姿势 也可 email+钉钉通知](https://segmentfault.com/a/1190000014847638) :star2:

### 后台/Backend 面试

* [TCP 和 UDP 的优缺点及区别](https://www.cnblogs.com/xiaomayizoe/p/5258754.html) :star:
* [对分布式事务及两阶段提交、三阶段提交的理解](https://www.cnblogs.com/AndyAo/p/8228099.html)

## 其他

* [PyCharm 常用快捷键和设置方法](https://www.jb51.net/article/131005.htm?utm_medium=referral)
* [后端工程师成长路线图](./_static/backend_developer.jpg) :star:
* [Markdown 简体中文与西文混排要点 - 李笑来](https://github.com/selfteaching/markdown-writing-with-mixed-cn-en) :star:
* [My Favorite Django Packages in 2019](https://vsupalov.com/favorite-django-packages-2019/)

## 待分类

* [基于 OSS 的文件系统设计](https://blog.csdn.net/ifwinds/article/details/66478204)
* [HTTP Session、Cookie 机制详解](https://www.cnblogs.com/lyy-5518/p/5460994.html)
* [跨域的问题](https://segmentfault.com/a/1190000015597029)