

My Bio

Python/Django developer , currently leading team in of the project of Sumaks company.

I am enthusiastic with open source products, Pythonic person and passionate love with Linux operating systems.

Special thanks to Elsad Agayev , Shahriyar Rzayev made me join open source community, now my passion to inform others about these tools and help them to get in.

***{tech}* academy**

A guide by Sabuhi Shukurov

How to gain success as Software Developer?

List of Topics we will touch:

What exactly software developer means?

Why to choose Linux distribution systems?

Basic Software and Tools

Core differences between Front-end and Back-end developer

What does Version Control GIT means?

How does SQL related to Developer ?

Open Source and how to contribute?

The Beauty of Python language

Remote job vacancies and Task management in reality

Create your own Blog

Why should I be active in Coding platforms

Where the hell am I?

Warning



Software Developer

- Coding
- Programming language(low-level and high-level)
- Data Structures and Algorithms
- Planning and Executing
- Coders can be HR, Sales, Accountant, Financial Analysts
- Create, make easier job-life for people
- Good solution to occurred issues or problems

Click for Algorithms



Continue with Development....

What ability it requires?

Wise enough to be coder?

Should be math genius?

Memorize all the codes?

Definitely Algorithms.

Computer with i7 RAM 8GB or enough to have compatible one?



Some more minded questions..

Syntax of the language.

Ability to create, be productive love your job

What is the Age requirement?

Developer is hacker as well?

How many language should I know?

Software Developer



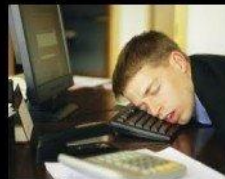
What my friends think I do



What my parents think I do



What society thinks I do



What my boss thinks I do



What I think I do



What I really do

Linux Operating Systems

What is the Command Line?

1. List of Operating Systems
2. Pros and Cons
3. How Terminal (Command Line) could be useful for developer ?
4. User Friendly Ubuntu

A command is an instruction telling a computer to do something, such as launch a program.

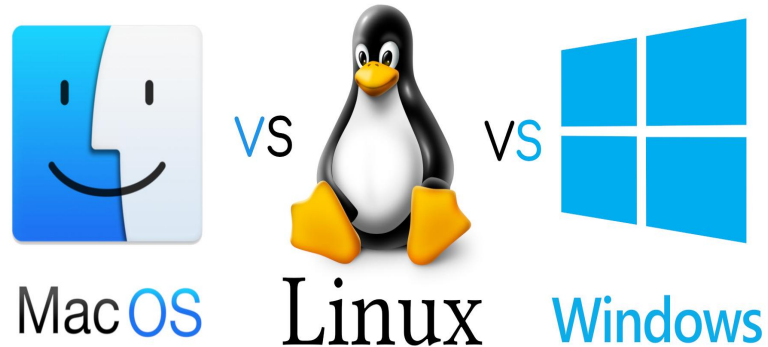
A command line interface (CLI) is an all-text-based interface that allows a user to interact with a computer by typing commands.

Mac OS X and Ubuntu are cousins, Mac OS X being based off of FreeBSD/BSD, and Ubuntu being Linux based, which are two separate branches off of UNIX.

Switch Linux

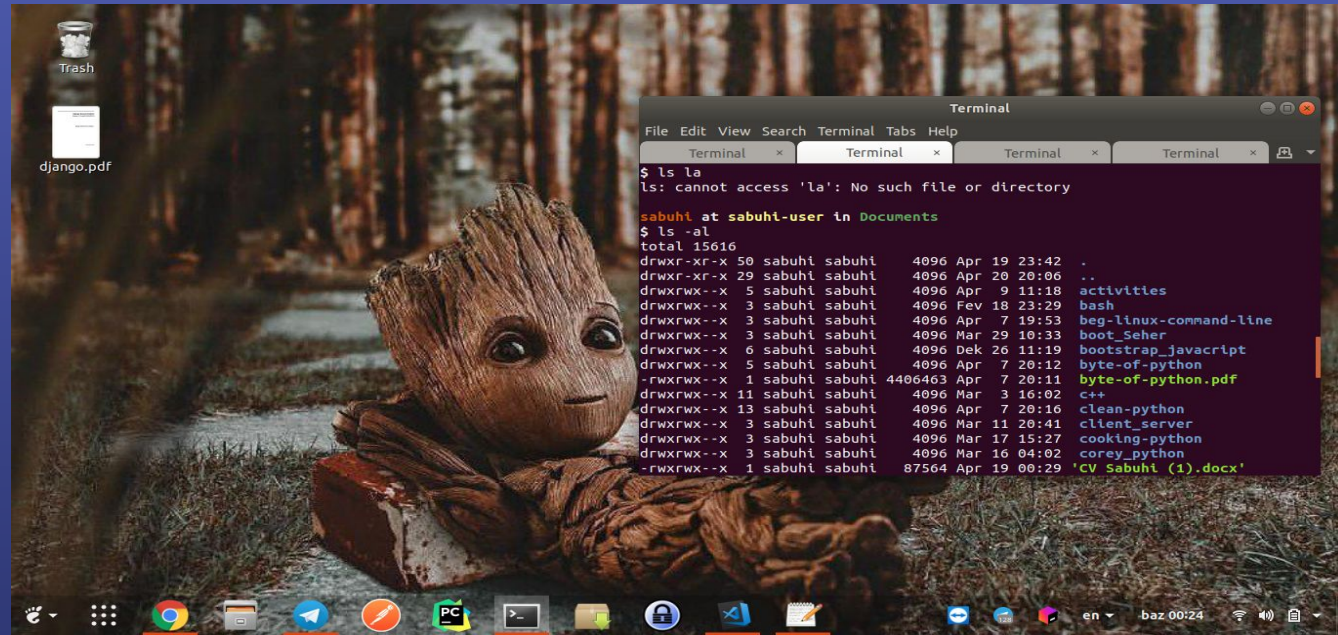
A command interpreter, also referred to as a shell, is a program whose primary function is to read commands that a user enters in a terminal window and then execute (i.e., run) them.

From the Linux Information Project (LIP)



Command Line - Terminal

- Don't scare of black window
- Just learn basics; cd, ls, touch, rm, cp, mv and etc..
- Pwd
- Man ls
- Date
- Cal, who, whoami



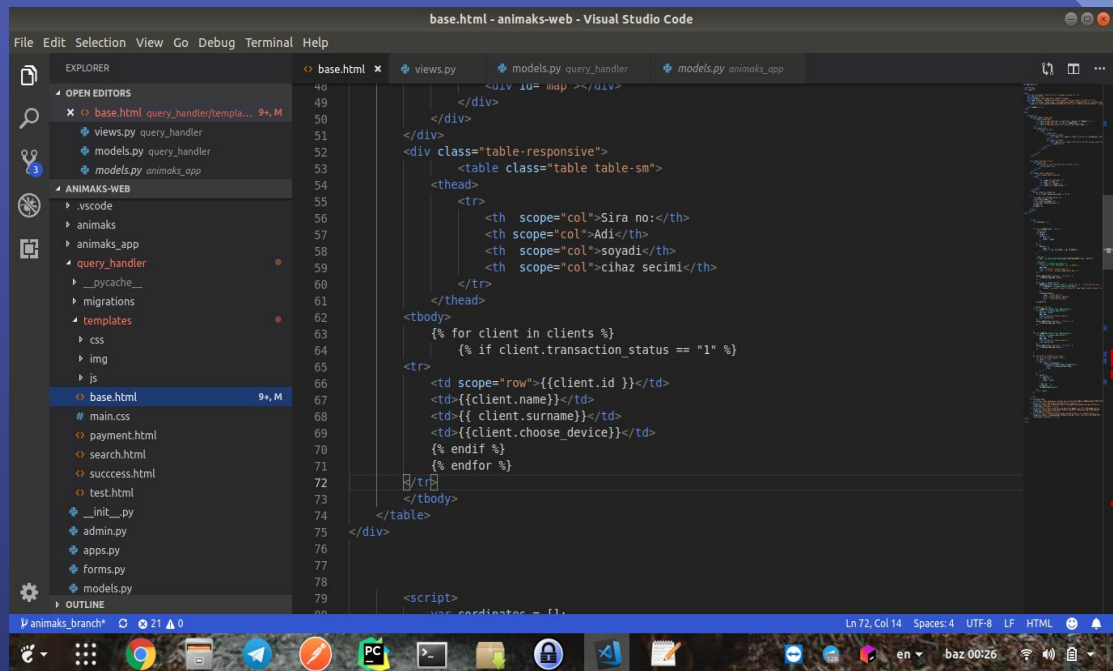
Tutorials for Shell

- FOSSwire
- Linux/Unix Command Line Cheat Sheet
- UNIX / LINUX CHEAT SHEET
- linuxcommand
- Linux Command Line
- Linux Tutorial
- LEARN ENOUGH



Basic Software and tools

Text editor VS Code, Pycharm, Atom, Sublime
Browser : Chrome, FireFox



Where to Start ?

- What does Front-end and Backend Developer do?
- Taks, skills, knowledge, improvements

A close-up photograph of a laptop screen showing lines of code in a dark-themed editor. A semi-transparent dark rectangle is overlaid on the bottom half of the screen, containing white text. The text reads 'FRONT END VS. BACK END DEVELOPMENT' in a large, bold, sans-serif font, and 'WHERE TO START?' in a slightly smaller, bold, sans-serif font below it.

**FRONT END VS. BACK END
DEVELOPMENT**
WHERE TO START?



Front Design

FRONT END DEVELOPER

User Facing
Experience

HTML
CSS
JavaScript

Front End
Frameworks
& State

UI / CSS
Framework

Git
Version
Control

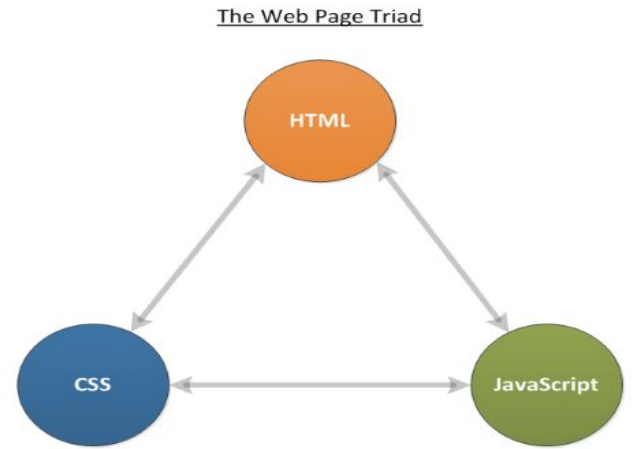
NPM, Webpack,
Parcel, Babel,
Sass

HTTP,
JSON, APIs

Some Design
Skills

Front end developer

- *HTML5*
- *CSS3*
- *BootStrap 4*
- *ECMAScript (ES6)*
- *JS(JavaScript, JQuery, Ajax, REST API(json))*



JavaScript && Today's Trend

- Data Types, Functions, loops, conditionals, operators,
- DOM, Manipulation & Events
- JSON
- ES6 +(Arrow functions, promises, async/ await, destructuring)

It is becoming necessity to learn a JavaScript Front-End framework

Advanced JS:

React, React Native - most popular in the industry

Vue - Easy to use really gain traction

Angular - Used in enterprise (fading, weakening)

Useful - Links

For Front-End Learners:

Jquery -Documentation

BootStrapCDN

BootStrap Documentation

Cascading style sheets

Hypertext Markup Language,
Asynchronous JavaScript and XML
JavaScript

FRONT END TOP SKILLS



Server Side Language

BACK END DEVELOPER

Foundation
& Structure

Server Side
Language

Server Side
Framework

Database,
SQL, ORM

Request /
Response
Cycle

Security

Virtualization
& Containers

Production
Env &
Devops

Server Side Language

1. In order to be Full-Stack or software engineer you need learn server side language/technology

- Python - Django, Flask
- PHP - Laravel, Symfony
- C# - ASP.NET
- Go - Revel
- Ruby - Ruby on Rails
- Java - Spring, Grails

Things you should cover:

- Fundamentals Syntax
- Structure & Workflow
- HTTP & Routing

Version control - Git

★ Understand GIT

- ★ 90 % of software companies uses Git version control;
- ★ For instance: Github, Gitlab, Bitbucket
- ★ Storing code bases;
- ★ 10 basic commands need to know;
- ★ Local repository, commit, push , pull and clone;

★ GIT Documentation

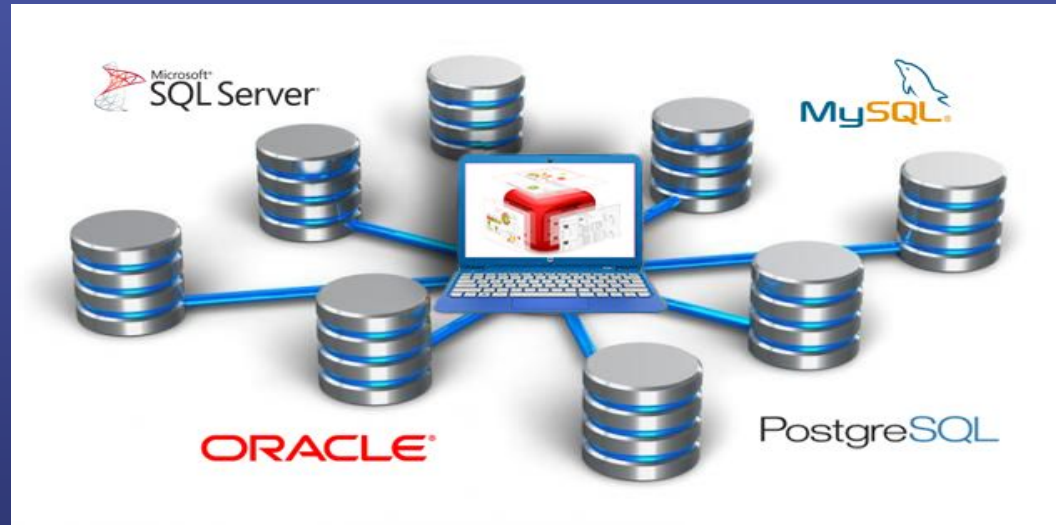


Backend Programming

Structured Query Language (Databases)

★ Most App use some kind of Databases, lets cover them:

- Relational Databases: MySQL, PostgreSQL, MS SQL
- NoSQL: MongoDB
- Cloud database: Firebase, AWS, Azure
- Lightweight: SQLite, Redis



Additional Information

- ❖ Setting up environment & deployment tools
- Deployment > Linux, SSH, Git, Server Software(Apache, Ngnix, Ngrok)
- Platforms > Digital Ocean, AWS, Heroku, Azure
- Virtualization > Docker



Open source & Contributions

- Create issues;
- Contribute open source projects;
- At least have basic open source projects;
- Do contributions to others projects
- Have projects open to public,
- Be active!



Why Python programming language?

Interpreter why is called?

Terminal;

Import this with python3 interpreter



python

[Official Python Documentation](https://docs.python.org/3/)

Continuing with Python...

- Open Source Programming Language
- Useful for Web Development (Django, Flask)
- Has plenty of modules for Data Science(Pandas, xlsx, Numpy, Scipy, Matplotlib, Ploty, Seaborn and etc..)
- Has Libraries For AI and ML; Scikit-Learn, TensorFlow, Seaborn



Popular websites with Python

[quora.com](https://www.quora.com)

[Washingtonpost](https://www.washingtonpost.com)

[Edx](https://www.edx.org)

[Udemy course](https://www.udacity.com/course)

[Reddit.com](https://www.reddit.com)

[Instagram.com](https://www.instagram.com)



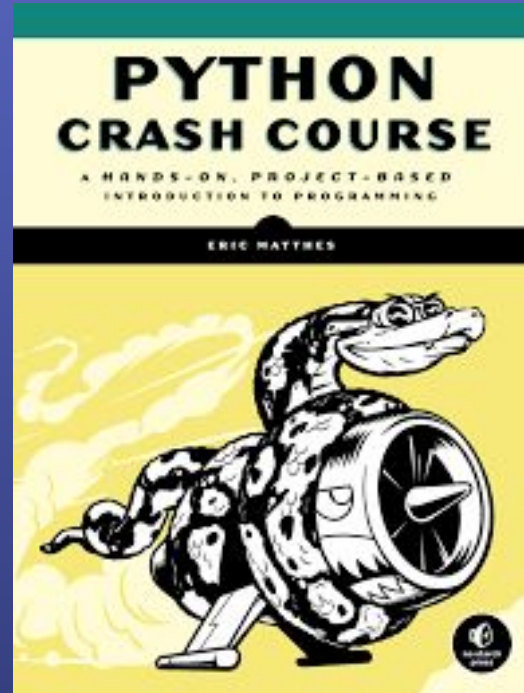
Python && VS “---” ?

- ❏ Comparing Python with other programming languages
- ❏ Pros and cons
- ❏ Advantages and Disadvantages



Python for Beginners

A Byte of Python
Built-in Functions
W3resource
Python 101!
Python Crash Course



First Attempt to Python && Python Tricks

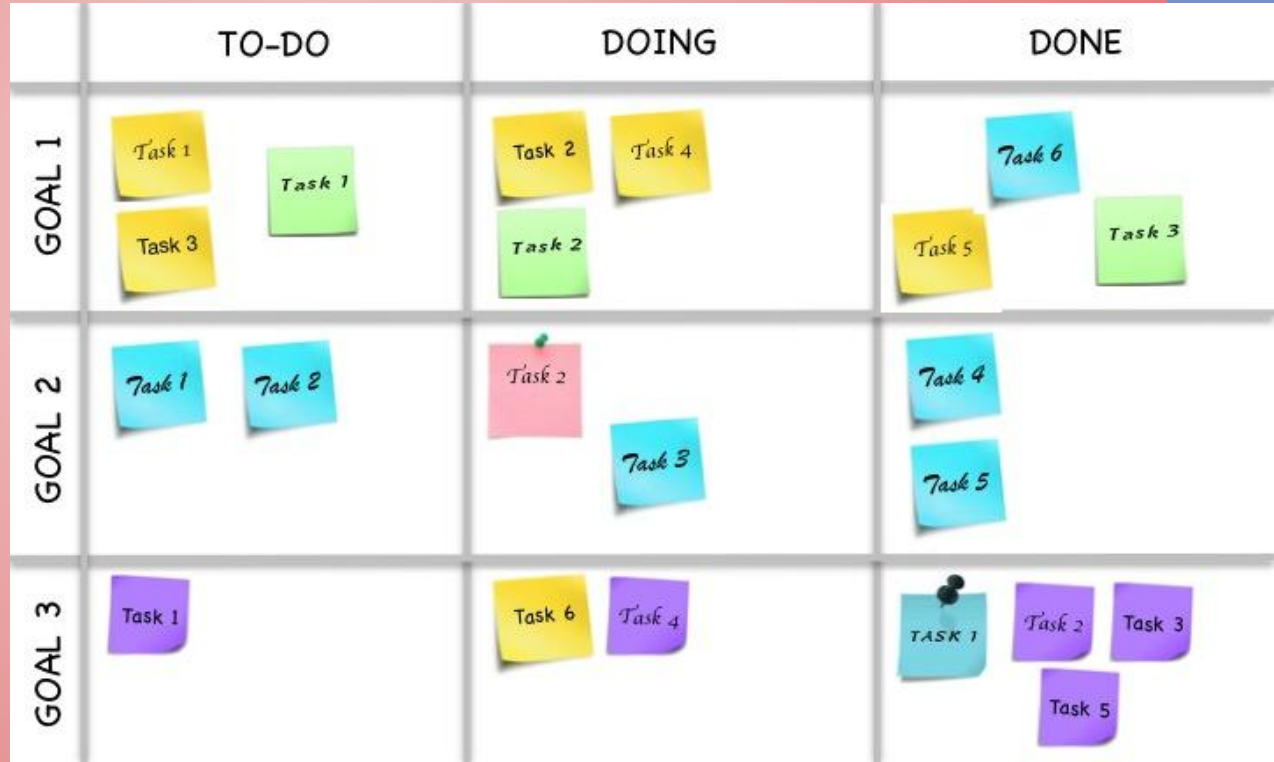
Go and Cover:

- ❖ *Data types: (list, tuple, dict, set, int, str, bool)*
- ❖ *Loops = (while, for, zip, enumerate)*
- ❖ *Functions*
- ❖ *Class*
- ❖ *Built-in functions*
- ❖ *operatorlar*
- ❖ *Virtualenv*



Task management:

1. Trello
2. Meistertask
3. Atlassian



Remote && Relocation

AzPUG

Relocats

Proglibrary

Библиотека data scientist'a

Remote IT (Inflow)

Python beginners

Python Textbooks

Rabota.ua

Work.ua/



Share is Care, have your own Blog

- Create Blog
- Share your thoughts
- Freecodecamp
- Medium



Participation is required!!

- Stackoverflow
- Quora
- Ubuntu
- Meidum
- Meta Stackexchange
- Update your Linkedin profile

Educational Portals

You should keep your profile active and get more points;

[Youtube.com](https://www.youtube.com)

[Hackerrank.com](https://www.hackerrank.com)

[Leetcode.com](https://leetcode.com)

[Stepik](https://stepik.com)

[Tynker](https://www.tynker.com)

[Codewars](https://www.codewars.com)

[Coderbyte.com](https://www.coderbyte.com)



Let's do Brainstorming again!

Lastly:

- ❑ Choose your path follow one direction
- ❑ GIT
- ❑ Linux
- ❑ Python community forums and groups
- ❑ Share your ideas
- ❑ Participate in events, platforms
- ❑ Support open source
- ❑ Lets help to each other to grow quickly!

Thanks for attending!

Any questions?

