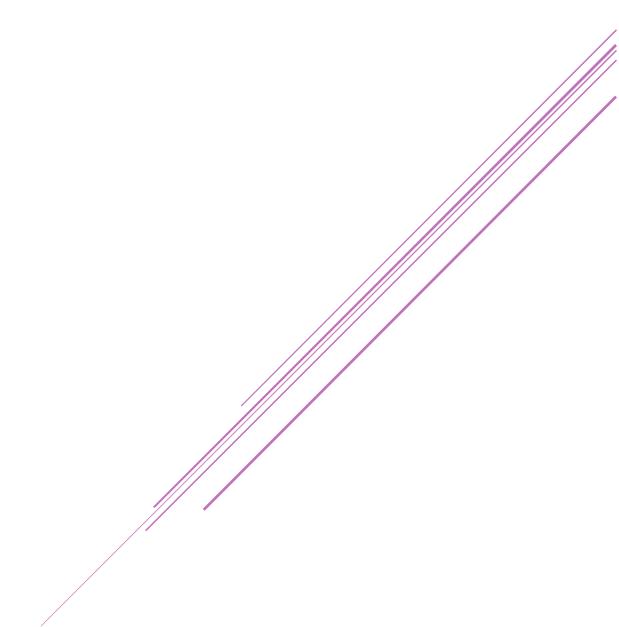
GitHub and Digital Repository Management

IN-MEXICO PROGRAM BACKEND

DEVELOPER CERTIFICATION





Contents:

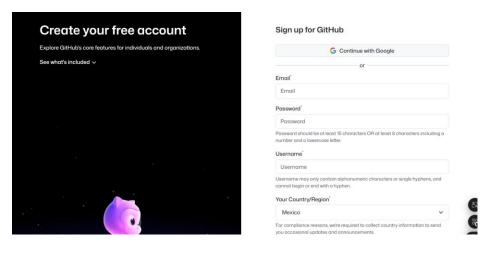
GIT	HUB ACCOUNT CREATION:	3
	INSTALLATION:	
1.	DOWNLOAD THE GIT SETUP FILES:	4
2.	VERIFICATION:	6
SSH	KEY GENERATION AND CONFIGURATION:	7
3.	CREATION OF A SSH KEY ON GITBASH:	7
4.	CONNECT GIT BASH WITH GITHUB:	8
5.	VERIFY ON GITBASH:	. 10

GITHUB ACCOUNT CREATION:

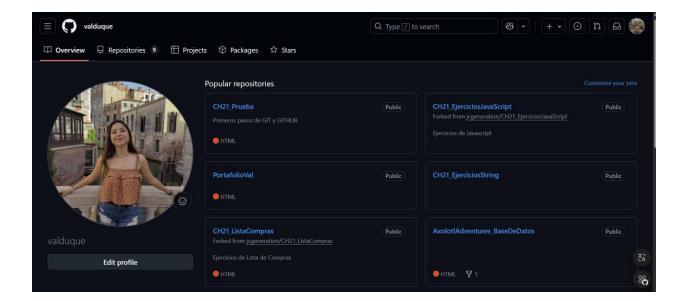
Go to https://github.com/ and click on Sign Up:



Then you can create an account through Google or with an email:



Once filled the information spaces and submitted the necessary information, the page will lead you to your new account:



GIT INSTALLATION:

1. DOWNLOAD THE GIT SETUP FILES:

Go to the Git for Windows page (https://gitforwindows.org/) and download the setup files:



Once downloaded, start the installation and grant the corresponding permission:

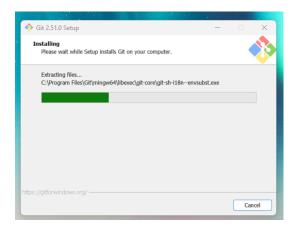


Start the installation system and select the Destination Location:





Select your installation preferences and let it install itself:



Finish the installation process:



2. **VERIFICATION:**

Open Git Bash and write down "git version" on the terminal to make sure everything is correct:

```
MINGW64:/c/Users/valer —  X

valer@LAPTOP-SI5J5VLM MINGW64 ~ (main)
$ git version
git version 2.51.0.windows.1

valer@LAPTOP-SI5J5VLM MINGW64 ~ (main)
$
```

SSH KEY GENERATION AND CONFIGURATION:

3. CREATION OF A SSH KEY ON GITBASH:

Open GitBash and execute the command ssh-keygen -t ed25519 -C your_email@example.com, and replace the email example with your own email

```
valer@LAPTOP-SI5J5VLM MINGW64 ~ (main)
$ ssh-keygen -t ed25519 -C "valeria.duques99@gmail.com"
Generating public/private ed25519 key pair.
Enter file in which to save the key (/c/Users/valer/.ssh/id_ed25519):
```

The system asks for a file to save the key, if you want to accept the default location of the key just press "enter":

```
Enter file in which to save the key (/c/Users/valer/.ssh/id_ed25519):
```

If it already exists, you can override it:

```
/c/Users/valer/.ssh/id_ed25519 already exists.
Overwrite (y/n)? y
```

Then it must be added a passphrase. And enter the same passphrase again for confirmation:

```
Enter passphrase for "/c/Users/valer/.ssh/id_ed25519" (empty for no passphrase):
Enter same passphrase again:
```

If everything is set up correctly, this is a message you shall receive:

```
Your identification has been saved in /c/Users/valer/.ssh/id_ed25519
Your public key has been saved in /c/Users/valer/.ssh/id_ed25519.pub
The key fingerprint is:
```

4. CONNECT GIT BASH WITH GITHUB:

Write down on GitBash this command Is -al ~/.ssh, this is the outcome:

```
valer@LAPTOP-SI5J5VLM MINGW64 ~ (main)
$ ls -al ~/.ssh
total 31
drwxr-xr-x 1 valer 197609 0 Dec 1 2022 ./
drwxr-xr-x 1 valer 197609 0 Sep 8 18:13 ../
-rw-r--r- 1 valer 197609 464 Sep 9 10:13 id_ed25519
-rw-r--r- 1 valer 197609 108 Sep 9 10:13 id_ed25519.pub
-rw-r--r- 1 valer 197609 656 Dec 1 2022 known_hosts
-rw-r--r- 1 valer 197609 92 Dec 1 2022 known_hosts.old
```

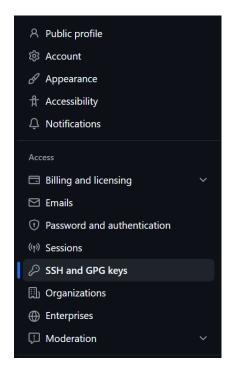
We need the one ending with .pub , then we write the command cat ~/.ssh/id_rsa.pub, or in this case; cat ~/.ssh/id_ed25519.pub.

This is the outcome:

```
valer@LAPTOP-SI5J5VLM MINGW64 ~ (main)
$ cat ~/.ssh/id_ed25519.pub
ssh-ed25519 AAAAC3NzaC1lZDI1NTE5AAAAIGX6Ihd8Z8F/Vc+5R0IE0dK6TaMBYrH00pK53FZq
ltll valeria.duques99@gmail.com
```

Full code is needed. It must be copied.

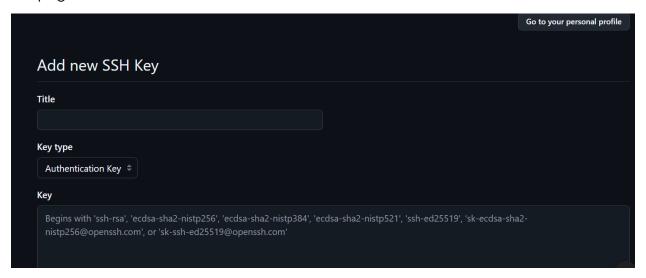
Then, we go to GitHub \rightarrow Settings \rightarrow SSH and GPG keys:



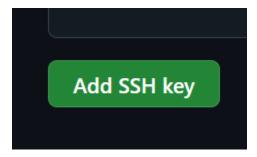
Click on "New SSH Key":



After that, a ssh key creation page opens. The information must be filled up. The key created on GitBash and previously copied will be placed in the last section of the page:



Once everything is done, click on "Add SSH Key" button:



Remember that your code must include email as well. If everything is correct, this message will appear:

You have successfully added the key 'Valeria Laptop'.

5. VERIFY ON GITBASH:

To verify the connection with the account, write on GitBash the next command: ssh -T git@github.com

GitBash Will ask you for your passphrase, previously created:

```
valer@LAPTOP-SI5J5VLM MINGW64 ~ (main)
$ ssh -T git@github.com
Enter passphrase for key '/c/Users/valer/.ssh/id_ed25519':
```

If it is connected, this message will appear:

```
$ ssh -T git@github.com
Enter passphrase for key '/c/Users/valer/.ssh/id_ed25519':
Hi valduque! You've successfully authenticated, but GitHub does not provide s
hell access.
```

Can also be checked, by adding the command the "git config --get user.email" onto GitBash:

```
valer@LAPTOP-SI5J5VLM MINGW64 ~ (main)

$ git config --get user.email

valeria.duques99@gmail.com
```

Or, can write the command "git config —list", which will bring the full list of the GitBash configuration:

```
valer@LAPTOP-SISJSVLM MINGW64 ~ (main)
$ git config --list
diff.astextplain.textconv=astextplain
filter.lfs.clean=git-lfs clean -- %f
filter.lfs.smudge=git-lfs smudge -- %f
filter.lfs.process=git-lfs filter-process
filter.lfs.required=true
http.sslbackend=schannel
core.autocrlf=true
core.symlinks=false
pull.rebase=false
pull.rebase=false
credential.https://dev.azure.com.usehttppath=true
init.defaultbranch=master
core.editor="C:\Users\valer\AppData\Local\Programs\Microsoft V5 Code\bin\code
" --wait
init.defaultbranch=main
```

Notes for feedback:

It is easy to install by creating the SSH key with GitBash and linking it to GitHub from its platform.

The keys must be saved for later use.

The repositories can be linked later without any problems.