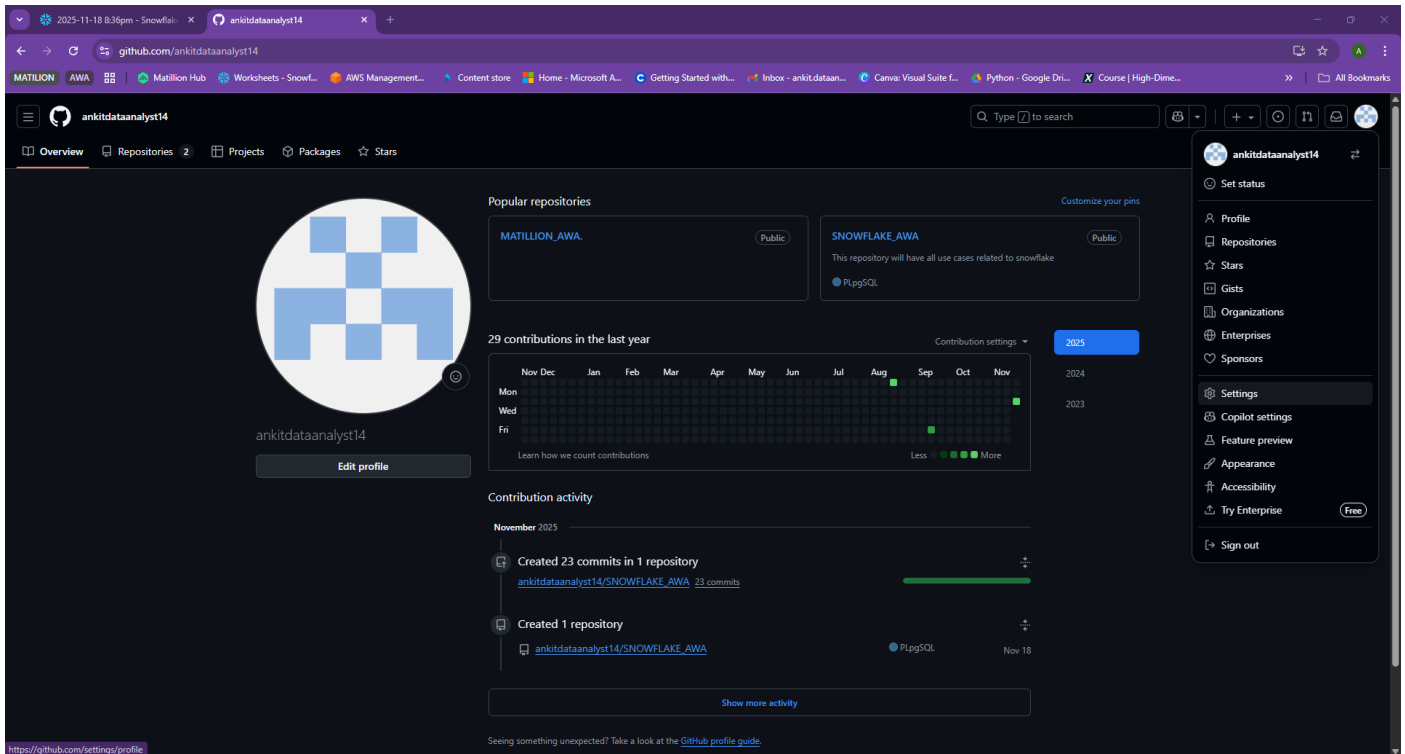


GitHub → Snowflake Integration Guide (Final Version)

This guide shows how to generate a GitHub Personal Access Token (classic) and integrate your GitHub repository with Snowflake. Each step is aligned with the correct screenshot, with detailed notes below each screenshot. The full Snowflake SQL script for GitHub integration is included at the end.

Step 1 — Open GitHub Profile Settings

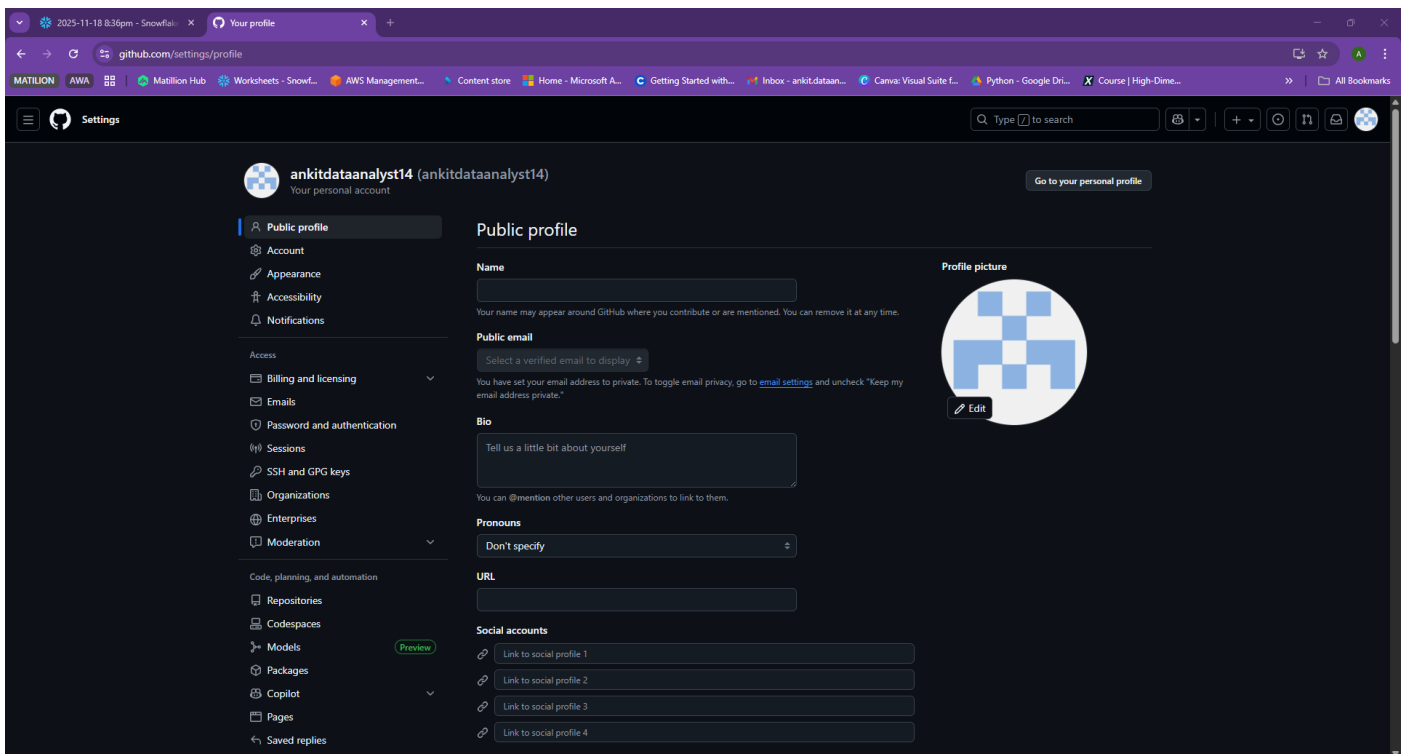
Log into GitHub and click your profile icon in the top-right corner, then choose 'Settings' from the dropdown.



On this page, you begin navigating toward developer settings.

Step 2 — Public Profile Page Opens

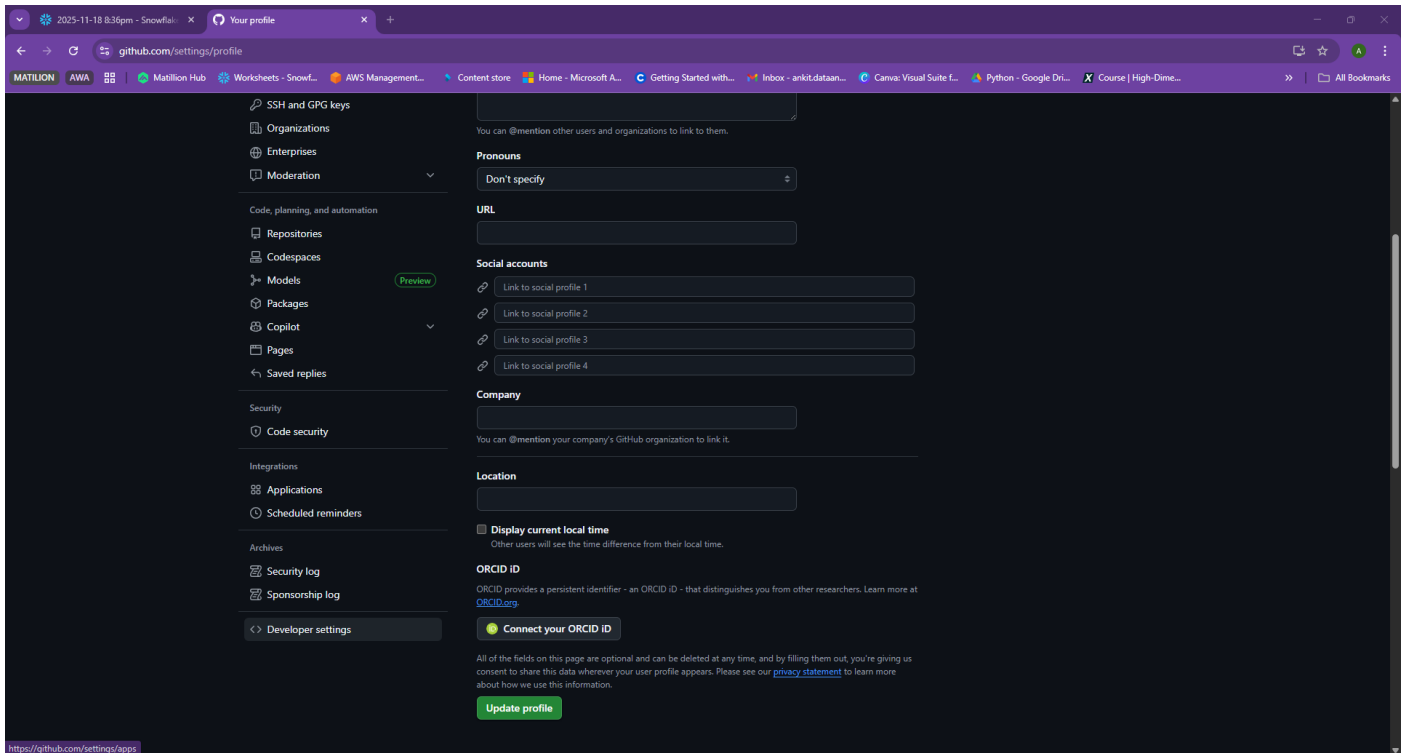
This page displays your public profile settings. No action required here.



Scroll downward to reach the Developer Settings section.

Step 3 — Scroll Public Profile Settings

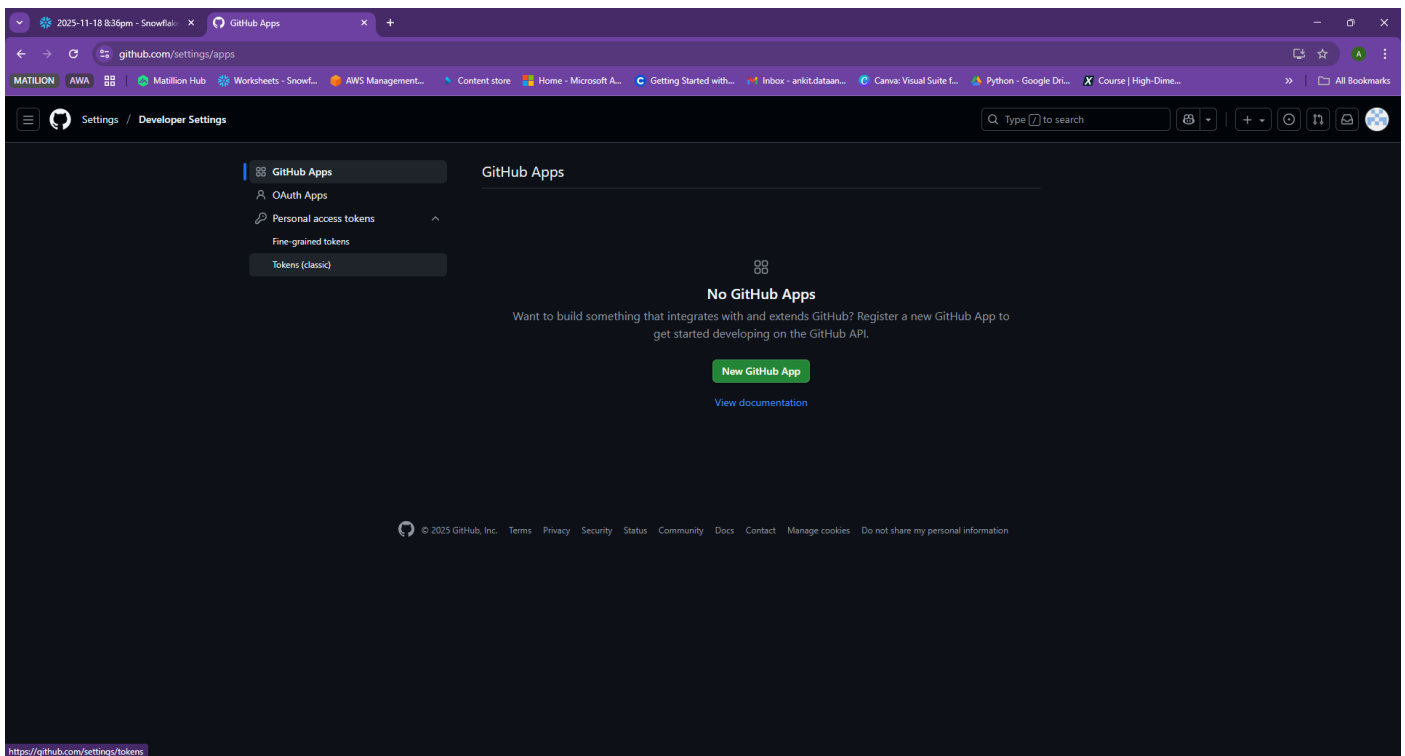
Continue scrolling the sidebar to reach the bottom.



Developer Settings is located at the bottom of the left menu.

Step 4 — Navigate to Developer Settings

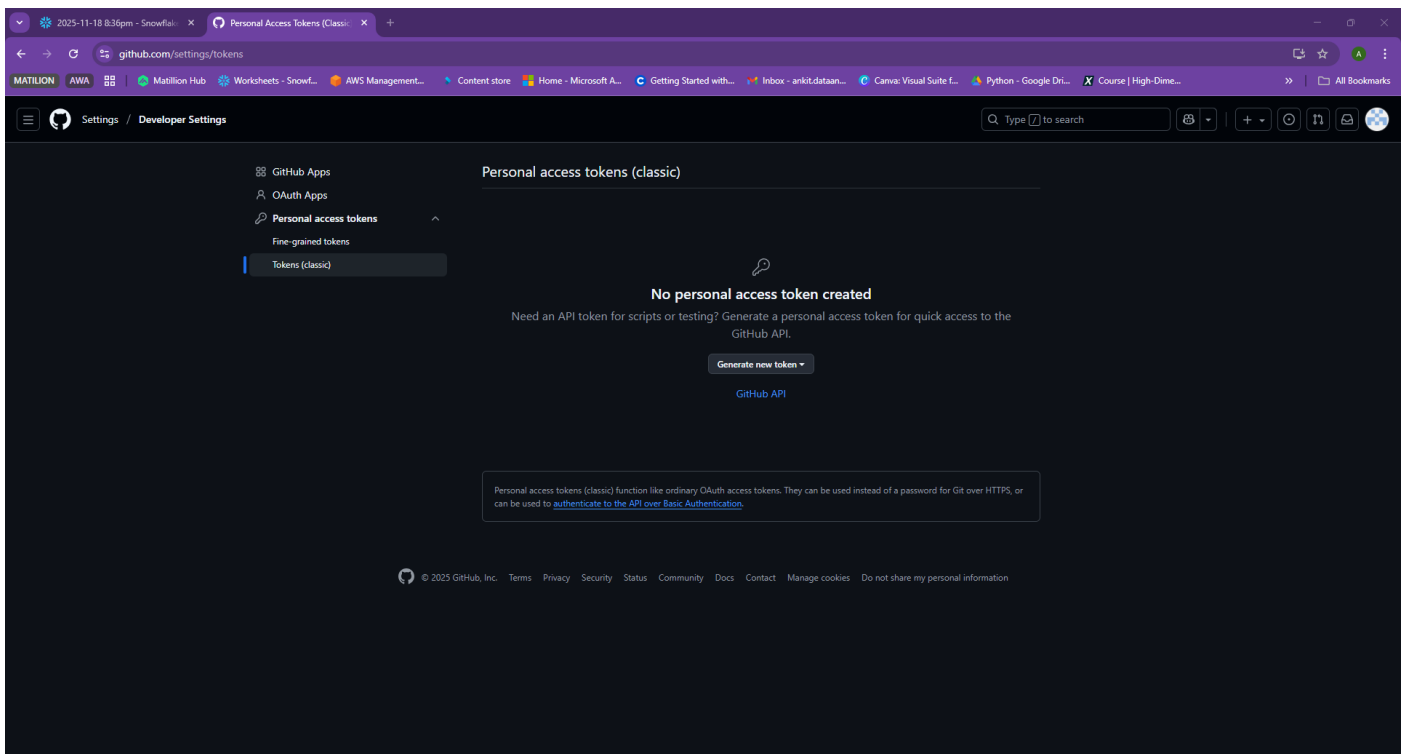
Click 'Developer settings' located in the sidebar.



This is the required section to access Personal Access Tokens.

Step 5 — Open Personal Access Tokens → Tokens (classic)

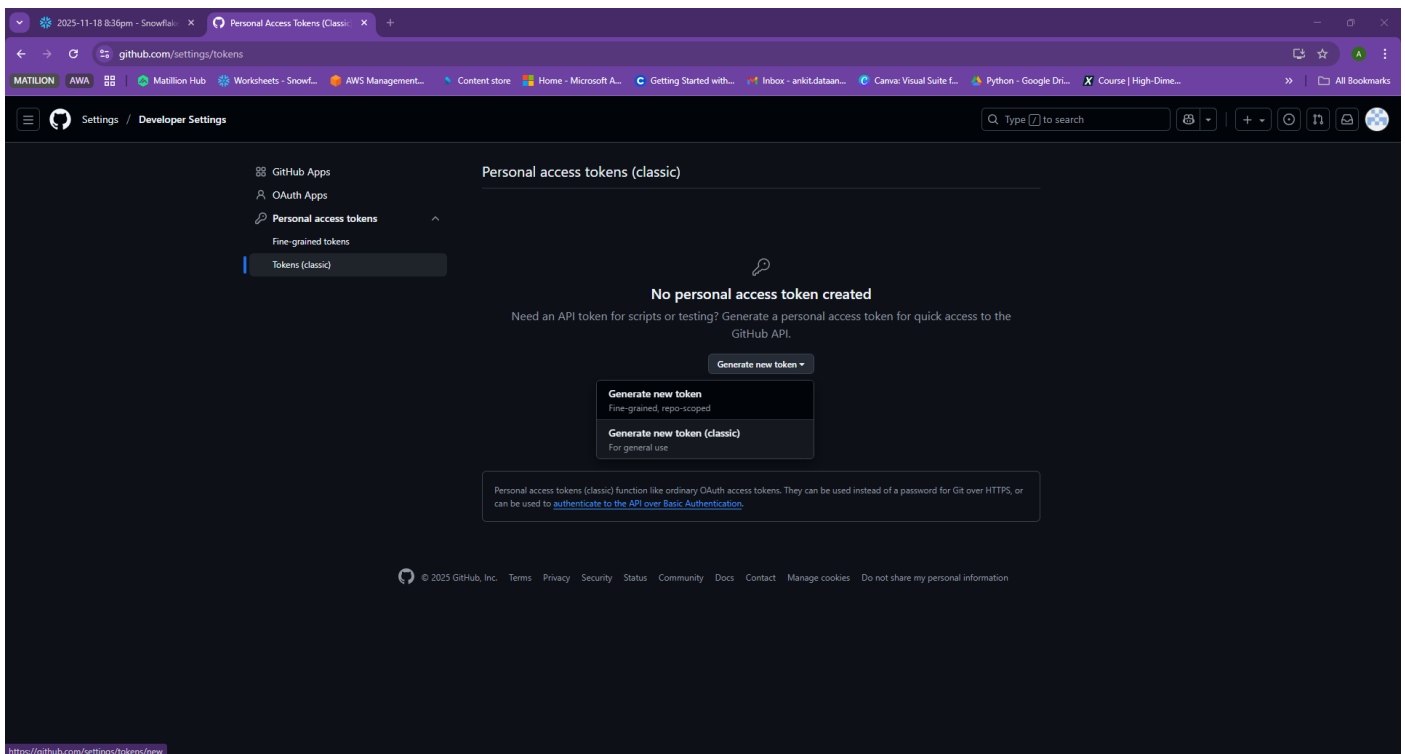
Click 'Personal access tokens', then select 'Tokens (classic)'.



You will see a screen showing zero tokens created (if first time).

Step 6 — Generate a new token (classic)

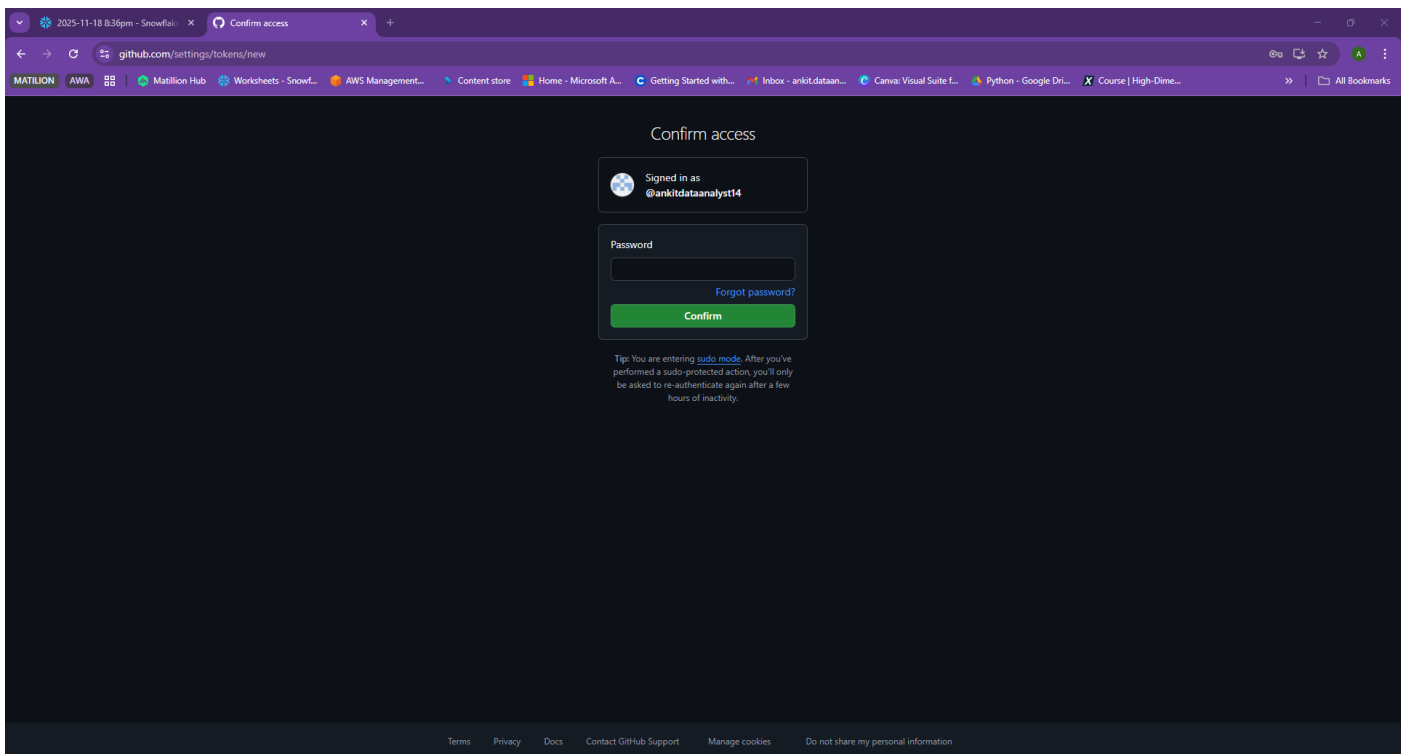
Click 'Generate new token' and choose 'Generate new token (classic)'.



This begins the PAT creation workflow.

Step 7 — Re-authenticate (Password Confirmation)

GitHub requires password re-entry for security.



Confirm access

Signed in as
@ankitdataanalyst14

Password

[Forgot password?](#)

[Confirm](#)

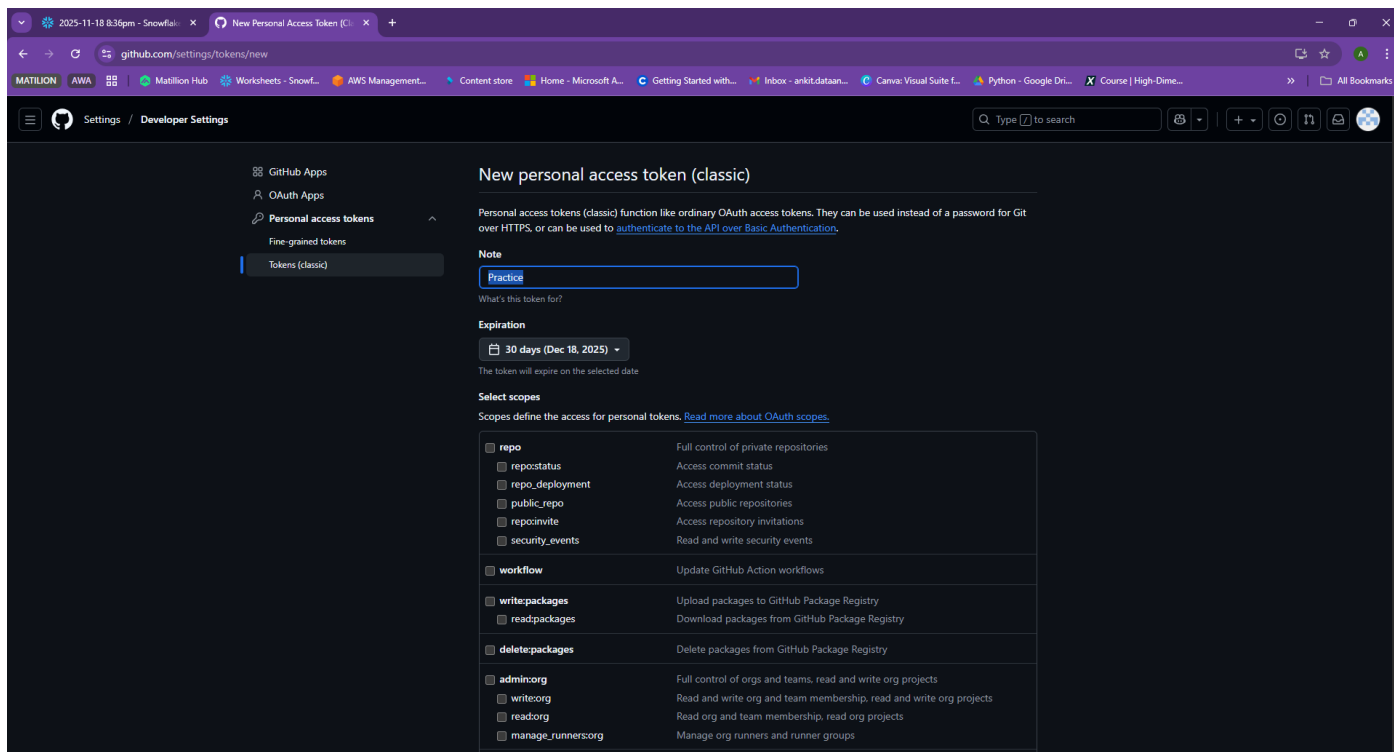
Tips: You are entering [sudo mode](#). After you've performed a sudo-protected action, you'll only be asked to re-authenticate again after a few hours of inactivity.

[Terms](#) [Privacy](#) [Docs](#) [Contact GitHub Support](#) [Manage cookies](#) [Do not share my personal information](#)

Enter your password to continue.

Step 8 — Provide token name and expiration

Enter a token name (example: Practice Token). Choose expiration duration.



github.com/settings/tokens/new

Settings / Developer Settings

GitHub Apps
OAuth Apps
Personal access tokens
Fine-grained tokens
Tokens (classic)

New personal access token (classic)

Personal access tokens (classic) function like ordinary OAuth access tokens. They can be used instead of a password for Git over HTTPS, or can be used to [authenticate to the API over Basic Authentication](#).

Note

Practice

What's this token for?

Expiration

30 days (Dec 18, 2025)

The token will expire on the selected date

Select scopes

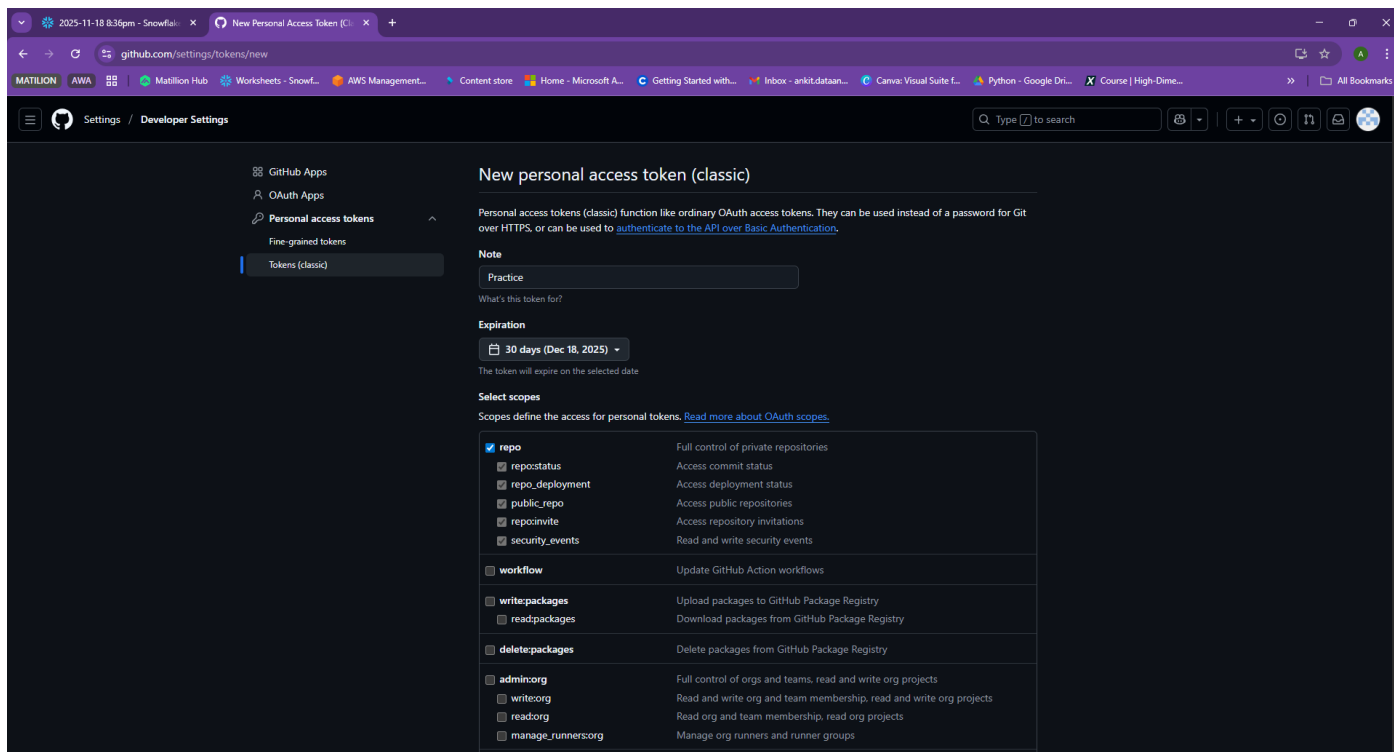
Scopes define the access for personal tokens. [Read more about OAuth scopes.](#)

<input checked="" type="checkbox"/> repo	Full control of private repositories
<input type="checkbox"/> repo:status	Access commit status
<input type="checkbox"/> repo:deployment	Access deployment status
<input type="checkbox"/> public_repo	Access public repositories
<input type="checkbox"/> repo:invite	Access repository invitations
<input type="checkbox"/> security_events	Read and write security events
<input type="checkbox"/> workflow	Update GitHub Action workflows
<input checked="" type="checkbox"/> write:packages	Upload packages to GitHub Package Registry
<input type="checkbox"/> read:packages	Download packages from GitHub Package Registry
<input type="checkbox"/> delete:packages	Delete packages from GitHub Package Registry
<input checked="" type="checkbox"/> admin:org	Full control of orgs and teams, read and write org projects
<input type="checkbox"/> write:org	Read and write org and team membership, read and write org projects
<input type="checkbox"/> read:org	Read org and team membership, read org projects
<input type="checkbox"/> manage_runners:org	Manage org runners and runner groups

Scroll down to configure scopes.

Step 9 — Select required scopes

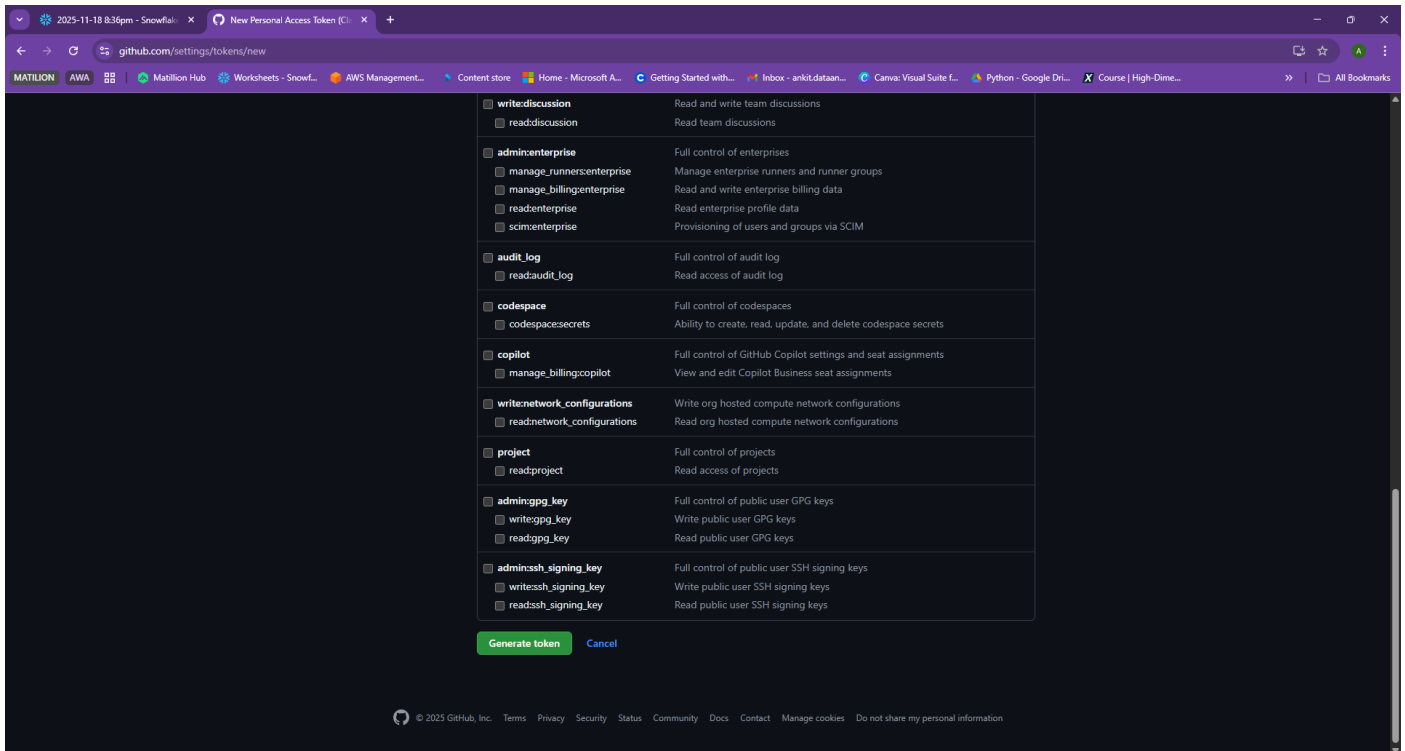
Check 'repo' and related repository permissions. These authorize Snowflake to access your repo.



Avoid enabling unnecessary scopes beyond repo permissions.

Step 10 — Click Generate Token

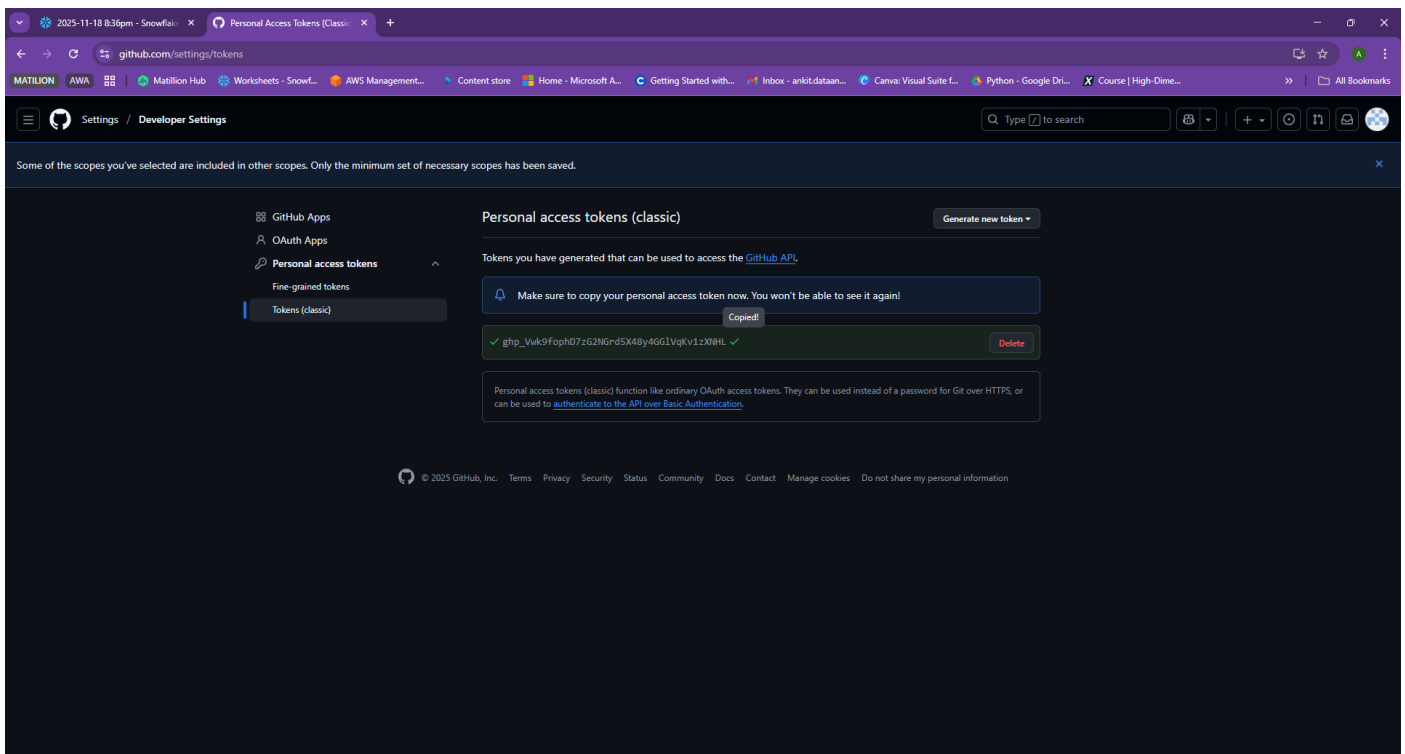
Scroll down and click the green 'Generate token' button.



The token will appear only once—copy and store safely.

Step 11 — Copy and Secure Your Token

Copy your generated token immediately; GitHub will not show it again.



Use Snowflake Secret Manager to store this token securely.

Snowflake SQL Integration Script

```
-- FULL SQL SCRIPT (user-provided)

-- #####
-- 00 - PREP: NOTES (do not run)
-- #####
-- 1) Create a Snowflake SECRET to store your GitHub PAT securely.
-- 2) Never paste PATs in SQL - use Secrets.
-- 3) Repo origin: https://github.com/ankitdataanalyst14/SNOWFLAKE_AWA.git

CREATE OR REPLACE SCHEMA GITHUB;

-- SECRET creation is recommended via UI for security.
-- Example (admin):
-- CREATE OR REPLACE SECRET GIT_SECRET TYPE=PASSWORD USERNAME='<USERNAME>' PASSWORD=

CREATE OR REPLACE API INTEGRATION GIT_INT
  API_PROVIDER=GIT_HTTPS_API
  API_ALLOWED_PREFIXES=('https://github.com/ankitdataanalyst14/')
  ENABLED=TRUE
  ALLOWED_AUTHENTICATION_SECRETS=(GIT_SECRET);

CREATE OR REPLACE GIT REPOSITORY SNOWFLAKE_AWA
  API_INTEGRATION=GIT_INT
  GIT_CREDENTIALS=GIT_SECRET
  ORIGIN='https://github.com/ankitdataanalyst14/SNOWFLAKE_AWA.git';

SHOW GIT REPOSITORIES;
DESCRIBE GIT REPOSITORY SNOWFLAKE_AWA;
SHOW GIT BRANCHES IN GIT REPOSITORY SNOWFLAKE_AWA;

CREATE OR REPLACE STAGE GITHUB.REPO_CLONE FILE_FORMAT=(TYPE='AUTO');

COPY FILES INTO @GITHUB.REPO_CLONE
  FROM @SNOWFLAKE_AWA/branches/main
  OVERWRITE=TRUE;

LIST @GITHUB.REPO_CLONE;

EXECUTE IMMEDIATE FROM @SNOWFLAKE_AWA/branches/main/sql/deploy_objects.sql;

CREATE OR REPLACE PROCEDURE GITHUB.RUN_RFM_FROM_GIT()
  RETURNS STRING
  LANGUAGE PYTHON
  RUNTIME_VERSION='3.10'
  HANDLER='handler'
  IMPORTS=('@SNOWFLAKE_AWA/branches/main/python/rfm_snowpark.py')
  PACKAGES=('snowflake-snowpark-python')
AS
$$
import rfm_snowpark
def handler(session):
    return "OK: " + str(rfm_snowpark.run_rfm(session))
$$;

CREATE OR REPLACE FUNCTION GITHUB.CALC_SCORE(x FLOAT)
```

```
RETURNS FLOAT
LANGUAGE PYTHON
RUNTIME_VERSION='3.10'
HANDLER='calc_score'
IMPORTS=( '@SNOWFLAKE_AWA/branches/main/utils/calc_score.py' )
AS
$$
import calc_score
def calc_score(x): return calc_score.calc_score(x)
$$;

SHOW GIT COMMITS IN GIT REPOSITORY SNOWFLAKE_AWA;
LIST @SNOWFLAKE_AWA/branches/main;
LIST @SNOWFLAKE_AWA/tags;
```