

Create a GitHub Actions CI workflow with one job (cross_build), matrix for ubuntu/windows/macos, triggers on push/PR to branches containing "develop" or "master", and steps: checkout, install CMake, run build script from stage 3, and deploy.

```
```name=.github/workflows/ci.yml

name: CI

on:
 push:
 branches:
 - '*develop*'
 - '*master*'
 pull_request:
 branches:
 - '*develop*'
 - '*master*'

jobs:
 cross_build:
 name: cross_build - ${{ matrix.os }}
 runs-on: ${{ matrix.os }}
 strategy:
 matrix:
 os: [ubuntu-latest, windows-latest, macos-latest]

 steps:
 - name: Checkout repository
 uses: actions/checkout@v4

 - name: Setup CMake
 uses: lukka/get-cmake@v3
 with:
 cmake-version: '3.24.3'
```

```
- name: Build & Test (Linux/macOS)
 if: matrix.os != 'windows-latest'
 run: |
 set -e
 mkdir -p build
 cd build
 cmake -DCMAKE_BUILD_TYPE=Release ..
 cmake --build . --config Release --parallel
 ctest --output-on-failure -C Release
 shell: bash

- name: Build & Test (Windows)
 if: matrix.os == 'windows-latest'
 run: |
 REM Use the project's Windows build script if present, otherwise run equivalent commands
 if exist "%GITHUB_WORKSPACE%\build_and_test.bat" (
 build_and_test.bat Release
) else (
 mkdir build
 cd build
 cmake -DCMAKE_BUILD_TYPE=Release ..
 cmake --build . --config Release -- /m
 ctest --output-on-failure -C Release
)
 shell: cmd

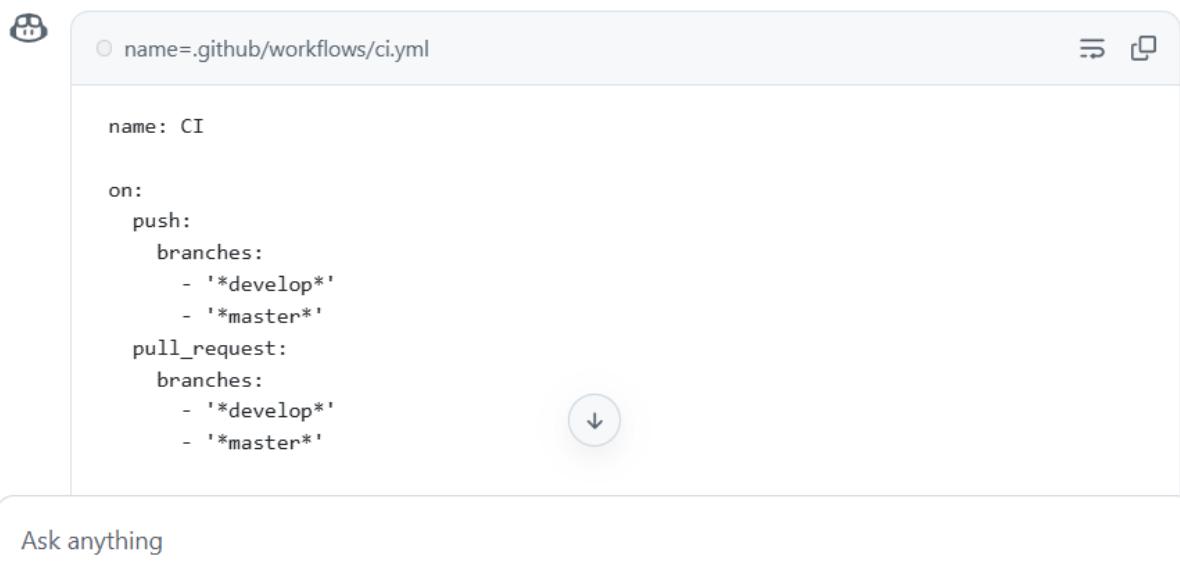
- name: Upload build artifacts (deploy placeholder)
 uses: actions/upload-artifact@v4
 with:
 name: build-artifacts-${{ matrix.os }}
 path: |
 build/bin
 build\bin
```

...

I created a single-job GitHub Actions workflow named CI with a cross\_build job that runs on a matrix of ubuntu-latest, windows-latest, and macos-latest. It checks out the code, installs CMake, runs platform-appropriate build-and-test steps (on Windows it prefers your build\_and\_test.bat if present; on Linux/macOS it runs equivalent CMake + CTest commands), and then uploads the build/bin output as a deploy placeholder artifact. The workflow triggers on push and pull\_request events for branches whose names contain "develop" or "master". If you want a real deployment step (e.g., to a package registry, GitHub Releases, or a cloud provider) tell me which target and I'll replace the artifact upload with the appropriate deploy action.

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Ask anything

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