

Unix Training Academy

Student CI/CD Portfolio Guide

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Welcome to Your Portfolio Project

This guide will walk you through using the UTA Portfolio Template to build your personal portfolio and practice real world development.

You'll be using:

- Git & GitHub
- GitHub Actions for CI/CD
- GitHub Pages for hosting

Step-by-Step Instructions

1. Go to the template repo and click "Use this template"
2. Create a new repo with your name (e.g., my-portfolio)
3. Clone it using Git:
`git clone https://github.com/YOUR_USERNAME/my-portfolio.git`
4. Edit index.html and personalize:
 - Your name
 - Email
 - LinkedIn
 - Add blog posts
5. Commit and push changes:
`git add .`
`git commit -m "My custom portfolio"`
`git push`
6. Enable GitHub Pages:
 - Settings > Pages > Source: main branch, root
 - Your site goes live at: `https://YOUR_USERNAME.github.io/my-portfolio/`

How CI/CD Works

The workflow runs on every push to the main branch. It uses GitHub Actions and Ubuntu to auto-deploy your site.

Workflow file: `.github/workflows/deploy.yml`

Steps:

- Checkout code
- Deploy to GitHub Pages using `peaceiris/actions-gh-pages`

You can edit this to only run on production branches or add validators.

Advanced Ideas (Optional)

- Add a dev branch and only merge to main when ready
- Add a blog page to showcase writing
- Use a static site generator like Jekyll or Hugo
- Add HTML/CSS linters for code quality
- Auto-notify your team or Slack when deployed

Advanced Ideas (Optional) (cont'd)

You're now DevOps-capable!