Github Essential Training

Association of Computing Machinery
WHAT IS ACM?

The Association Of Computing Machinery (ACM) Student Chapter works to provide outside learning opportunities for students to expand their horizons beyond what they learn in class. We do this by offering educational workshops, guest speakers, industry tours, programming contests, and other social gatherings.
ACM ADVISOR

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TE 110D
Upcoming Events

**FEB 26**
Headshot Fundraiser for Primary Children's Hospital
Ditch the selfie! Jazz up your online presence with a professional headshot.
$10 for students/faculty/staff
10 a.m. - 2 p.m. | Union Atrium

**MAR 19**
Unit Testing Essential Training
Learn the basics of this highly requested skill from industry specialists. No experience needed. We will also be electing next year’s ACM officers.
1:30 p.m. | TE 104

**APR 19**
Egg My Yard Fundraiser Volunteers
Help stuff and hide eggs for ACM’s 2nd annual Egg My Yard Fundraiser
1:30 p.m. | TE 104
WHAT IS VERSION CONTROL?

- A system that allows for collaborative development
- Allows you to manage who made what changes and when
- Allows you to revert any changes and go back to the previous state
WHAT IS GIT?

Git is a distributed version control system that takes and stores snapshots of your code.

Git is made up of a few small commands:

- **Checkout**: Making a copy of a remote repository on a local machine.
- **Commit**: The act of taking a snapshot and storing it on your local machine.
- **Push**: The act of taking local commits and putting them on the remote server.
- **Pull**: The act of pulling commits from the remote to bring your local copy up to date.
CREATING A REPO

Github.com -> New -> Name repo -> Create Repository
CLONE REPO IN GITHUB DESKTOP

Clone or download dropdown -> Open in Desktop
Take note of where the local path is pointing to. This is where the local copy of your repo is going to be.
ADD FILE TO REPO

Create new file -> save it into repo folder created in last step
COMMIT FILE TO REMOTE REPO

MUST add a summary in order to commit changes -> Commit to master
PUSH TO REMOTE
This is a example project on Github.
COMMIT CHANGES DIRECTLY TO REMOTE
Back in Github Desktop-> Fetch Origin-> Pull Origin -> Changes will then show in History
Create a new Branch and pushing to remote

Current Branch dropdown -> New Branch -> Name branch -> Create Branch -> Publish Branch
GIT Command Line - Installing

MacOS

Command Prompt: $ git --version

Windows

http://git-scm.com/download/win
Git Command Line- Commands

Create a new local repo- git init

Check out a repo- git clone /path/to/repository

Commit- git commit -m "Commit message"

Push- git push origin master

Pull- git pull

New Branch- git checkout -b <branchname>

Push Branch- git push origin <branchname>