

Github Survival Guide

CS-370: Software Design and Development

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Why use Github?

- Companies need an effective method for managing large source code repositories.
- Github is a very useful resource for managing a source code repository. It has many features for pushing, pulling, and merging software.
- Most CS graduates will work in a team environment developing software.
- Most CS graduates will likely need to use Github to manage source code.
- Obtaining Github experience before graduating with is a valuable skill (hint: put it on your resume).
- Github experience will make you stand out as a competitive candidate in your job search.

Why use Github?

- With a little practice, you and your team can:
 - ✓ Issue pull requests (fork a copy of the source code branch)
 - ✓ Issue push requests (submit bug fixes for some portion of the source code) to be reviewed before integrating the bug fixes into the source code tree
 - ✓ Review push requests then integrate push requests into the source code.
 - ✓ Save immense amount of time in managing a software project!
 - ✓ Gain valuable experience in software project management before graduating from school!

Learning Github

- Start with the Github “Hello World” tutorial:

<https://docs.github.com/en/get-started/start-your-journey/hello-world>

- Next, learn how to resolve merge conflicts:

<https://github.com/skills/resolve-merge-conflicts>

- Lastly, go for a deep-dive into Github, by taking all the various Github tutorials:

<https://skills.github.com/>