

# **Github Survival Guide**

CS-330 Introduction to Game Programming

# 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 your CS degree 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 CS-330 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/>