

**CS 3300**  
**Intro to Software Engineering**  
**Git**

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# Why back up your code?

- **Computer dies**, and sometimes **at the most inconvenient times** (e.g., right before deadline)
- Replacing computer is easy, **recreating lost work and data is not.**
- I highly recommends [GitHub student account](#). Also **github.gatech.edu** may come handy sometimes (i.e., git repository)
- Git is the most popular version control system in software development. <https://en.wikipedia.org/wiki/Git>

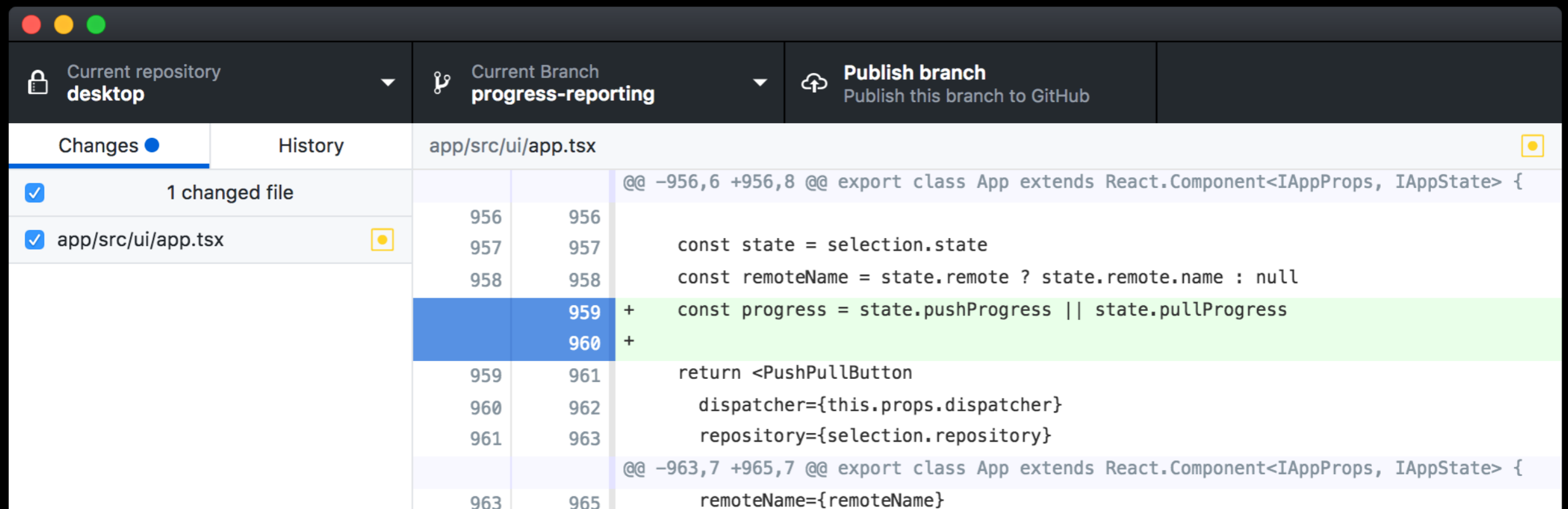
# GitHub

1. Backs up code
2. Provides **version control**
  - You can **revert to older versions** when needed
3. Supports code **branching** and **collaboration**
  - Easy to collaboratively develop new features  
be integrating them into “main” code base
4. Encourages you to write a **README file**  
(readme.md), shown on your repo’s landing page

# Github desktop client

Github provides easy-to-use **FREE desktop** clients for Mac and Windows (<https://desktop.github.com>)

- **If you're new to Git/Github**
- Or if you like GUI
- Or if you don't like typing commands



# GitHub Pages as free websites

- One click to enable for your GitHub repo.
- This course's website is a GitHub Page.
- Whenever you commit a change, your site is updated.

## GitHub Pages examples

Fine examples of projects using [GitHub Pages](#).

📖 13 repositories   <> 4 languages   ⌚ Last updated on Jul 3, 2015

Stars   Language

🔍 Search showcases

### **B** twbs / bootstrap

The most popular HTML, CSS, and JavaScript framework for developing responsive, mobile first projects on the web.

● JavaScript   ★ 105,913   🍷 48,145   Updated 5 hours ago



### **f** facebook / react

A declarative, efficient, and flexible JavaScript library for building user interfaces.

● JavaScript   ★ 57,991   🍷 10,522   Updated 3 hours ago



### Related showcases

#### Open source organizations

A showcase of organizations showcasing their open source projects.

#### Government apps

Sites, apps, and tools built by governments across the world to make gov...

<https://github.com/showcases/github-pages-examples>

# WARNING

Set you repo to private.

**Unless you are 100% sure  
you want it to be public.**

## Security

# Dev put AWS keys on Github. Then BAD THINGS happened

## Fertile fields for Bitcoin yields - with a nasty financial sting

6 Jan 2015 at 13:02, Darren Pauli



Bots are crawling all over GitHub seeking secret keys, a developer served with a \$2,375 Bitcoin mining bill found.

DevFactor founder Andrew Hoffman said he used [Figaro](#) to secure Rails apps which published his Amazon S3 keys to his GitHub account.

He noticed the blunder and pulled the keys within five minutes, but that was enough for a bot to pounce and spin up instances for Bitcoin mining.

"When I woke up the next morning, I had four emails and a missed phone call from Amazon AWS - something about 140 servers running on my AWS account," Hoffman [said](#).

"I only had S3 keys on my GitHub and they were gone within five minutes!"

### More like this

Amazon

Theft

Github

**FOCUS ON  
BUSINESS. WE  
HAVE OPEN  
COVERED.**

– Public/private/hybrid  
for best fit

– 1 billion+ hours oper

# OneDrive

**Free 1 TB of storage (+ Word, Excel, Powerpoint)**

**Good for general file sharing, syncing, and backup**



<https://ai.oit.gatech.edu/onedrive>