Welcome to INFO6150

INFO6150: Web UX Engineering (UI/UX)

Quick Questions

- Is this an online class?
    - No
- Is in-person attendance required
    - Yes (except for excused absences)
    - Not my decision
    - University can be SERIOUS about this!
    - Let me know if sick or other excuse
        - I'm nice, we're all adults

Livecast Attendance - BOSTON/SILICON VALLEY

- The school has legal obligations about physical attendance
- You are required to physically attend almost every class you aren't excused from
    - Otherwise you fail the course
    - Not my rules
- If requesting an excuse
    - *I* trust you
    - but you should document because I'm not the only concern

COVID Overview

- COVID sucks
- My rules are the same even without COVID
  - Being sick and spreading ANY illness is bad
- Thank you for keeping yourselves and others safe
- I will assist with this whenever possible

Vulnerabilities

- I have multiple comorbidities
- My wife takes medication that reduces her immune system
- Expect due caution from myself
    - I extend the same courtesies to you

Who is this guy?

Brett Ritter `<b.ritter@northeastern.edu>`

- He/Him
- Currently in Seattle
- WebDev since 1995 (not designer)
- Multiple languages, frameworks, platforms
- Both frontend and backend
- Part time instructor since 2017
    - Tell me where to improve my teaching

Not Perfect

I have a truly terrible memory.

Terrible

You have my permission to remind me, and keep reminding me, until something is done or I explicitly say "stop".

Funny

I tell jokes

Fortunately, they are all hilarious

You will laugh out loud

Try it now

Get Better at Laughing

We will keep practicing that

What does INFO6150 teach?

- How to implement UI/UX decisions
  - Using HTML, CSS, JS
  - Native "vanilla" JS
  - Intro to React
- Important needs in UI/UX
  - Accessibility (a11y)
  - Semantics
  - Maintainability
  - Avoiding Deceptive Patterns

What does INFO 6150 NOT teach

- Design
    - I cover more HOW than WHY
    - Taught from Web Dev perspective
- Server-side/Backend logic
    - See INFO 6250 for this
- Advanced Front End logic
    - See my INFO 6250 for this
    - Note: other Boston INFO 6250 backend only!
- Using Libraries (mostly)
    - Libraries are great!
    - But we are training *your* skills

What to expect

- Git
- Lots of HTML/CSS
- Focus on best practices
    - NOT "it works"
    - NOT "looks right"
- Many syntaxes
    - HTML
    - CSS
    - JS
    - React

How this course flows

- Weekly lectures
- Weekly assignments
  - Submitted via Github
  - Due night before next class
- Weekly Quizzes
  - On Canvas
  - Open Notes
  - Not time-limited
  - Due night before next class
- Projects (solo)
  - Like big assignments

How the Course is Graded

- Quizzes (10% of grade, lowest dropped)
- Assignments (15% of grade, lowest dropped)
- Projects (each 25% of grade)

Final Project can raise low grades!

Instructor Virtual Office Hours

- Mon 2pm-3pm (ET) / 11am-noon (PT)
- Tue 2pm-3pm (ET) / 11am-noon (PT)
- Wed (no office hours)
- Thu 2pm-3pm (ET) / 11am-noon (PT)
- Fri 2pm-3pm (ET) / 11am-noon (PT)
- Other times by appointment
- Available on Slack for quick questions

Teaching Assistant(s)

- Have taken this course!
    - Use their knowledge and experience
- Virtual Office Hours
    - To be announced

Extensions

I am reasonably generous with extensions

- Real Life happens
- No excuses needed
- No penalty for granted extensions
- Builds Real Job Skills

BUT!

- Ask BEFORE day assignment is due
    - Unpredictable problems are fine
- Don't overuse
- On-time grading gets priority before extensions

DO NOT COPY WORK

- I prefer learning to grades
    - But grades should be fair
- Most learning is practice
    - Finding little lessons
- Copying reduces practice
    - Whatever you call it ("referencing")
- NOT WORTH THE RISK
    - Use my generous extension policies
- See "do-not-copy-work" in your repository

Large Language Models (ChatGPT etc)

- Don't want to be old/out-of-touch
    - But want to teach
- LLMs are NOT "AI"
    - No "understanding"
    - Just predictive text
- Might be helpful on job (maybe)
    - NOT helpful to learn!
    - Like copying, cuts practice
    - Too often it is WRONG
    - You lack context to know

Tools for the Course

I have built this course to use tools like a job would

- I will note exceptions

Canvas

- Zoom Meetings link
- Quizzes
- Grades
    - Can take up to a week after due date
    - Details will be in Github

Otherwise don't make much use of Canvas

- Let me know if you think I should!

Zoom

- Classes are streamed and recorded
    - Recordings available in Canvas
- Virtual Office Hours
    - Link posted in Slack

NOT USED/BARELY USED

- Zoom Chat (use Slack instead)
- Break out rooms (too busy)
- Your Video (You can, not required)

Operating System

Mac, Windows, *nix

- All allowed for course (tools work on all)
- All exist in jobs
- Mac common (for devs) in bigger teams/companies
- Windows common in small teams/companies
- Windows common in explicit MS stack (.NET)
- *nix never common, but is underlying tech

I use Mac

- Windows users may need to adjust (rare)

Browser

A web browser is a significant tool for…web

- Course will use Chrome browser
- Current most common with users
- Many Devs prefer Firefox for development
- Our techniques should work in all major browsers
  - Developer Tools (DevTools) minor differences
- Real work should always be tested in all major
- But course will use only Chrome

Editor / IDE

- Used to edit HTML/CSS/JS/JSX/Markdown files
- Course does not have any requirement
- Instructor will use **vim** and **VSCode**
    - Instructor is old like dirt
    - Also vim presents fewer distractions
- **VSCode** is recommended for students
    - But not required
    - Most common with devs

Slack

We use **Slack** as our in-class chat

- Matches more jobs
- Actual job SKILL
  - Searching
  - Bouncing between channels
  - Not missing replies
  - Not starting with "Hi" (**https://nohello.com**)
- Sign up here: **https://rebrand.ly/svinfo6150-slack**
  - I need to unlock existing accounts
    - If you started the class previously

Slack Notes

- Good for code snippets
    - Use ` (backtick) around a command
    - Use ``` (triple backtick) around code block
- Screen shots often problematic
    - Unreadable on mobile
    - Can't copy code to test
- I am very available on Slack!
    - Reach out anytime!
        - If I'm not available, I won't respond
    - If you don't hear back, remind me!
- I announce changes to assignments, class cancellations, etc

Git

git is a version control system

- Tracks changes to files
- HEAVILY used in jobs
    - When not git, will be some other VCS
- Git is a lot to take in!
    - Notes will have suggestions to learn it better
- Being able to use git great for jobs
- Knowing more than the minimum even better!
- You will need to download/install

Github

- `git` manages a local (your computer) "repository"
- Github is a central repository ("repo")
- Each student will have their own Github repo
    - Get yours here: **https://rebrand.ly/svinfo6150-github**
- I push notes and assignments to github
- You pull to your local repo from github
- You push work from your local repo to github
- TAs and I grade and merge (more detail later)
    - Real job: You merge

NodeJS and related tools (npm, npx)

- Javascript (JS) for server-side
- We use it but not write for it
  - That's my 6250 class
- You will need to download and install it
  - Either "Latest Stable" or "LTS" version
  - Do not install node libs/packages as "sudo"/administrator

Class Recordings

- I cast and record classes on Zoom
    - Links available on Canvas
- Always a risk of technical problems!
    - Missing class is a risk
- University has physical attendance policy
    - Remember to get excused absences!

Accommodations

If you require any accommodations

- Lasting or temporary
- For reasons physical, mental, or emotional
- Let me know and I will work with you
- Your reasons can stay private

Your Repository

Key things to find in your repo

- Syllabus (`/syllabus.md`)
- Do Not Copy policy (`/do-not-copy-work.md`)
- Readings (`/readings`)
- Samples (`/samples`)
- Class Notes (`/classes`)
- Class Assignments (`/work`)
- Projects (`/project1`, `/project2`, `/final`)

Tips for Excelling in this course

- I teach more than is required to pass with an A
- What I teach should help you on the job

Key tips:

- Ask questions!
- Do the assignments from scratch
    - NOT using others' code "as a reference"
        - Do not copy code
    - Practice teaches MORE than main lesson
    - Not relying on ChatGPT/LLMs
- Start Projects ASAP
    - Coding always takes longer than expected

If you fall behind...

- Tell me
  - As soon as you notice
- We can figure out how to fix things
  - "Working harder" is a nice thought
    - Often that's not the problem
- This is a JOB SKILL
  - Manager and team want to know ASAP
    - So they can prevent problems
  - Not about blame

Use Caution with Online Resources

- A lot in Webdev has changed over time!
  - Lots of outdated/misleading resources
- Never trust any source over _3_ years old
- Prefer **MDN** as a source
  - W3Schools is "okay"
  - I recommend MDN first
- **Never copy/paste code** (HTML/CSS/JS)
  - Understand and recreate it first
  - This includes ChatGPT
  - Copying limits your skill