



# Lab 4: September 16, 2026

Project Planning in Practice + Getting an Interview in 2026



# Agenda

- Mentor Meeting Expectations
- Planning in Practice
- Lab Planning Activities
- Job Search in 2026: Getting the Interview

# Mentor Meeting Expectations

- Meet regularly with your mentor (weekly recommended; at least bi-weekly + sprint planning required).
- For the first meeting: introduce the team, share your project proposal, and agree on a recurring time.
- Use your GitHub Project board to drive the discussion: what is done, next, blocked, and risky.
- All team members should attend, participate, and be ready to share progress.
- Ask for technical feedback early—especially on scope, architecture, dependencies, and testing.

# Planning in Practice: What Matters Now

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You have a project direction. Now turn it into work the team can actually execute.

Define what “success this semester” means.

Break large ideas into small, testable tasks.

Put tasks on GitHub Projects and update the board every week.

Use instructor + mentor meetings to adjust scope early—not in December.

# Fall 2026: Simple Roadmap

Use the course schedule, but plan around a few major checkpoints

**NOW → OCT.  
6**

Scope + plan  
First sprint  
Demo -1

**OCTOBER**

Design + build  
Presentation 1  
Writing 2

**NOVEMBER**

Individual  
progress  
Presentation 2  
Writing 3 +  
alpha prep

**DECEMBER**

Presentation 3:  
Dec. 2  
Demo 1: Dec. 8  
Writing 4: Dec.  
13

# The Three Finals Are Closer Than They Look

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**DEC. 2**

## **Presentation 3**

Can you clearly  
explain what you  
built and why?

**DEC. 8**

## **Demo 1**

Does the alpha  
project work  
end-to-end?

**DEC. 13**

## **Writing 4**

Is the final design  
documented and  
defensible?

**Treat them as one connected deadline: presentation +  
working alpha + documented design.**

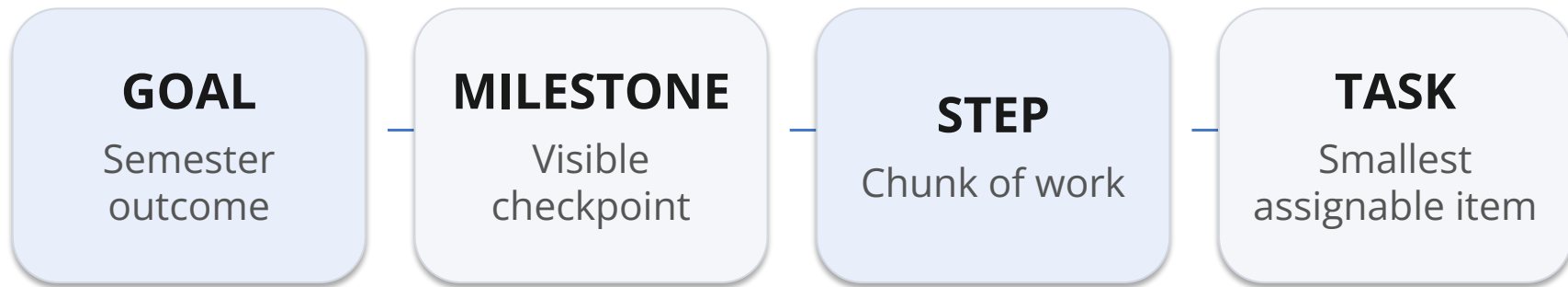
# Plan Backwards from the Alpha Demo

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- 1 **DEC. 8** What must work in the alpha demo?
- 2 **LATE NOV.** What must be integrated and testable?
- 3 **EARLY NOV.** What components must already exist?
- 4 **OCTOBER** What is the smallest end-to-end path?
- 5 **THIS WEEK** What can each person finish in 7 days?

# Simple Planning Framework

GIST idea, simplified for your GitHub board



**For day-to-day work, spend most of your time at the Task level.**

# Example: Safe Walking App

Reusing last year's example, but breaking it into smaller work

## Goal

Demonstrate a safer walking-route prototype

## Milestones

- Map input works
- Safety score works
- Route combines map + score
- End-to-end demo works

## Example tasks

- Get API key + render map
- Choose a safety-data source
- Implement scoring function
- Write unit tests for scoring
- Connect route result to UI
- Test one complete user flow

# What Makes a Good Task?

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- Starts with an action verb
- Has one owner
- Has a target/due date
- Has clear acceptance criteria
- Notes dependencies or blockers

## **Too big**

“Build the backend”

## **Better**

“Add /route endpoint  
returning a route for two  
coordinates”

# Scope: Must / Should / Could

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## **MUST**

Required for the  
Dec. 8 alpha  
demo

## **SHOULD**

Improves quality  
if time allows

## **COULD**

Nice-to-have; cut  
first if needed

**If everything is “must-have,” nothing is prioritized.**

# Dependencies and Risk: Move Unknowns Earlier

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What must happen before this task can start?

Do you depend on an API, dataset, hardware device, account, or external approval?

Does one teammate's work block another teammate?

Which technical assumption is still unproven?

What is the fallback if the risky approach fails?

# GitHub Projects = Your Source of Truth

 The syllabus explicitly uses the board to track task progress

- Every active task should be visible on the board.
- Use clear status: To Do → In Progress → Review/Test → Done.
- Each card should have an owner, target date, and acceptance criteria.
- Update the board before instructor and mentor meetings.
- If the board is stale, your mentor cannot see where the team needs help.

# Monthly Sprint Planning: Keep It Simple

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Choose one milestone the team wants to reach in the sprint.

Pull the highest-priority tasks from the backlog.

Assign owners and identify dependencies.

Leave some buffer for bugs, integration, and surprises.

Revisit the plan every week with your instructor and mentor.

Planning is a hypothesis—you are allowed to revise it when you learn more.

# Lab Activity 1 — Define Fall Success

10 minutes • Work as a team

- Write one sentence: “By Dec. 8, our alpha demo will allow a user to ...”
- List the 3 most important things that must work.
- Move nice-to-have features into “Should” or “Could.”

## **By the end**

1 fall goal +  
3 must-have  
outcomes

# Lab Activity 2 — Work Backwards from Dec. 8

10 minutes • Work as a team

- Create 3–5 milestones between now and the alpha demo.
- Include at least one integration milestone and one testing milestone.
- Give each milestone a target week—not just “sometime in November.”

## **By the end**

A simple  
milestone  
timeline

# Lab Activity 3 — Break One Milestone into Tasks

15 minutes • Work as a team

- Choose the next milestone.
- Create 8–12 tasks that can usually be finished in less than one week.
- Give every task an owner, target date, and acceptance criteria.
- Mark dependencies and unknowns.

## **By the end**

A task list the team can start tomorrow

# Lab Activity 4 — Update Your GitHub Project

15–20 minutes • Work as a team

- Create or update the cards on your GitHub Project board.
- Choose the tasks for the next two weeks.
- Mark blockers and risky tasks clearly.
- Share the board during the mentor/instructor discussion.

## **By the end**

An updated board that is usable in the next meeting

# Job Search in 2026

Getting the interview is the first problem to solve



# 2026 Job Market: Why Getting an Interview Is Harder

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**+1.6%**

Projected  
new-grad hiring  
vs. Class of 2025  
(NACE: nearly  
flat)

**-7.5%**

Entry-level  
postings  
year-over-year  
as of May 2026  
(Indeed)

**~-30%**

Software  
development  
postings vs.  
Feb. 2020  
baseline (June  
2026, Indeed)

**~70%**

Employers using  
skills-based  
hiring  
for entry-level  
recruiting (NACE)

**The market is not closed—it is more selective. Your first challenge is getting through screening.**

# Think Like a Funnel

Today's focus is the top of the funnel



If you are not getting interviews, do not only practice LeetCode—improve targeting, resume evidence, visibility, and networking.

# 1. Search Broader, Not Randomly

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Do not search only for “New Grad Software Engineer.”

Also consider: Software Engineer I, Developer, QA/Automation, Data/ML, Security, Cloud/DevOps, Systems, and Solutions roles.

Look beyond large tech companies; software hiring is spread across many industries.

Use location flexibility when you realistically can.

Read the requirements, but do not self-reject because you miss every “preferred” skill.

## 2. Resume: Make Screening Easy

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For most new grads, keep it to one clear page.

Put the role-relevant technical skills where a recruiter or screening system can find them quickly.

Use project bullets that show action + technology + evidence—not a list of course names.

Tailor the top third of the resume to the job description.

List only skills and experiences you can explain in an interview.

# Use Senior Design as Proof of Work

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## **Your project should show:**

- The problem + user
- Your individual contribution
- Technical decisions + tradeoffs
- A working demo or tested feature
- Evidence: users, tests, latency, accuracy, scale, etc.

## **Resume bullet pattern**

Built [feature] for [user/problem] using [technology], resulting in [measured evidence].

**Do not invent a metric. Use real evidence from your project.**

### 3. Make Your GitHub Easy to Evaluate

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Pin your best 2–4 projects.

For each important repo, add a short README: problem, demo, stack, setup, and architecture.

Link a working demo or short video when possible.

Keep secrets and API keys out of the repository.

For team projects, be ready to explain exactly what you personally built.

## 4. Network Before You Need a Referral

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Use mentors, alumni, career fairs, and short informational conversations to learn about roles and teams.

In a first conversation, ask for advice and feedback—not “Can you refer me?”

If you later find a specific role that fits, follow up with a concise message.

Your project mentor is first a project mentor: build a professional relationship before asking for career help.

## 5. Apply Early + Track It

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Set job alerts and check new postings regularly.

Apply soon when the role is a reasonable match; many entry-level positions close quickly.

Track: company, role, date, status, contact, and follow-up.

Mix large tech firms with smaller companies and non-tech employers that hire software talent.

If you submit many applications but get no screens, revise targeting and resume evidence—not only interview prep.

# Where to Find Roles

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GW Handshake — jobs and internships specifically available to GW students and alumni.

SimplifyJobs New-Grad Positions — frequently updated list of entry-level tech roles.

LinkedIn Jobs + employer career pages — use alerts and apply at the source when possible.

GW Career Services / career coach — resume review, search strategy, and interview support.

# Use AI Carefully in the Job Search

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Good uses: compare your resume to a job description, brainstorm keywords, revise bullets, and practice recruiter questions.

Do not fabricate experience, metrics, or technical skills.

Avoid sending hundreds of nearly identical AI-written applications.

Know every line on your resume and every major decision in your projects.

Skills-based hiring means you may be asked to demonstrate what you can actually do.

# Once You Get the Interview

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A common path: recruiter screen → coding/assessment → technical + behavioral rounds → final/team discussion.

The exact process varies by company and role.

Follow the company's instructions about AI tools during assessments—do not assume they are allowed.

Review your own resume and Senior Design project deeply; expect questions about your decisions and tradeoffs.

# Technical Interview Prep: Keep It Focused

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Refresh the data structures and algorithms most relevant to your target roles.

Practice explaining your approach before you code.

Write clean code and test edge cases.

Practice behavioral stories from teamwork, debugging, design choices, and project setbacks.

Use mock interviews after you begin getting screens so practice matches the real pipeline.

# Helpful Resources

 A short list—use these rather than collecting 50 job-search links

## [GW Handshake](#)

Jobs + internships posted for GW students/alumni

## [NACE Job Outlook 2026](#)

Current new-grad hiring + skills-based hiring context

## [GW Networking Strategy](#)

How to run informational interviews and build relationships

## [Tech Interview Handbook](#)

Free coding / behavioral / interview preparation

## [SimplifyJobs New-Grad Positions](#)

Frequently updated list of entry-level tech roles

## [Course schedule + syllabus](#)

Use course milestones to build portfolio evidence early