Summer Opportunities

Laura, Jeremy, Jules

My cat (again)

—

You don't have to get an internship

(there are other options!!)

Lots of different paths

- Internships
- Summer Research
- Summer Classes
- Working on campus over the summer
- Going home!!

Internships

- Resume
- Where to Look
- When different companies are hiring
- Freshman internships
- Technical Interviewing
- Non-technical internships are okay too!

Resumes

We stole this one from the career center website

One note. Some companies annoyingly won't look at any freshman resumes. So just say you're an undergrad instead.

Cocoa Touch
ctouch@gmail.com
844-555-0990

OBJECTIVE:
An internship or research opportunity that will allow me to utilize my problem solving skills and attention to detail to further develop my abilities in the field of computer science

EDUCATION:
Carnegie Mellon University, Pittsburgh PA
Bachelor of Science in Computer Science, May 20XX

Walnut Hills High School, Cincinnati, OH
Diploma with Honors, June 20XX   GPA 4.0/4.0

COURSEWORK:
Analysis I and II; Introduction to Programming; Concepts of Mathematics; Principles of Imperative Programming, Great Theoretical Ideas in Computer Science

PROJECT:
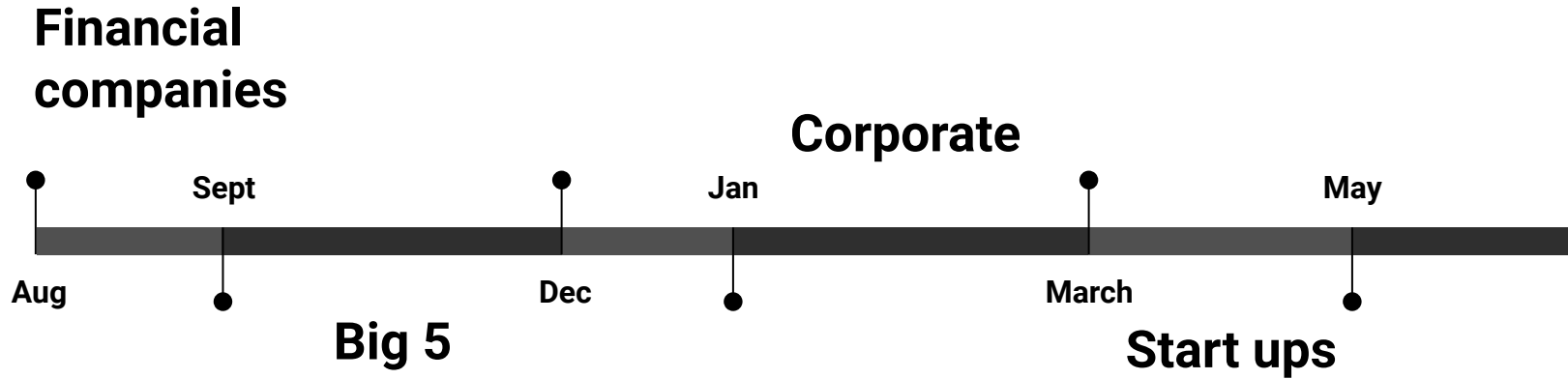Programming Homework: An Adventure Game, Fall 20XX

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Where to look for internships

- TOC/Let's Talk
  - Ok that passed but maybe you went and talked to some people
- [Handshake](#)
  - CMU's jobs portal
- [LinkedIn](#)
- [Angel.co](#)
- Company websites
  - Handshake, LinkedIn, Angel all have one click apply
- Internship / Research with local Pittsburgh organizations
- Referrals / family connections
- https://github.com/pittcsc/Summer2022-Internships

When do companies hire?

Financial companies

Corporate

Aug — Sept — Dec — Jan — March — May

Big 5

Start ups

- Encompass CMU: Monday-Tuesday, September 13-14
- Spark (Start ups): Wednesday, October 20
- Jumpstart (Freshmen & Soph only): Spring 2022, TBD
- Encompass (again): Spring 2022, TBD

Freshmen Intern Programs

- Intern programs specifically for 1st and 2nd years
- Good opportunity to explore big tech, but again this ISN'T a total must.
- STEP and FBU close applications before November
- Popular Programs Include
  - Google STEP (formerly Engineering Practicum)
  - Facebook University
  - Explore Microsoft
  - Amazon Future Engineer

Interning at Startups

- Really fun to work at
- Get to have a ton of impact on really cool companies
- Startups are really looking to hire
- There are an endless list of them so you can most certainly find one that seems cool to you
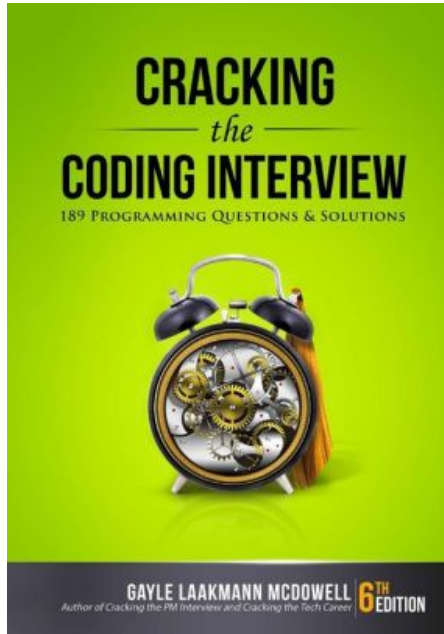
Non-technical internships

- You can do other things besides code
- It's totally fine to get an internship doing something else
- It will make you really stand out!!
- Get paid for underpaying / unpaid internships:
    - With CMU Summer Internship Experience Fund
    - https://www.cmu.edu/career/students-and-alumni/find-a-job-or-internship/summer-internship-experience-fund.html
    - (unpaid internships are kind of illegal actually)

Technical Interviewing (summarized)

- Interviewer(s) will ask you to solve some sort of problem
- Less about getting it right than showing off your amazing problem solving skills
- Really explain what you're doing and why you're trying what you're trying
- If you get stuck, that's ok. They'd rather see you try to solve something than sit there and not do anything
- You can check out our [extratation notes](#) on Technical Interviewing for more information

How to Study for Technical Interviews

Something Other Than SWE? PM

- A product manager (sometimes called program manager or project manager) is like the **mini-CEO of their product**
- Lead a team with authority, influencing them with **your vision and research**
- The intersection of **technology, business, and design**
  - A highly collaborative role
- Sometimes split role between the more business-focused and more engineering-focused person
  - TPM vs. PM

Non-technical Interviewing

- Fitting in with a company is important
- Be nice, professional, and courteous and companies will love you
- Remember that interviews give you a chance to see if you will fit in at the company too

Summer Research

- Research with professors
  - Email professors
  - Wait for Tom's opportunities list
  - Handshake
- Money:
  - REUs - Research Experience for Undergrads
  - SURF - Summer Undergraduate Research Fellowships
  - SURG - Small Undergraduate Research Grants
- Unpaid:
  - SURA - Summer Undergraduate Research Apprenticeship
- HCII Summer research program (link to last year's portal)

[CS-undergrads] Opportunities - Fall 2021 - new listings! Inbox ×

Thomas Cortina <tcortina@andrew.cmu.edu>   Mon, Aug 30, 12:30 AM (11 days ago)   ⭐   ↩   ⋮
to cs-seniors, cs-juniors, cs-sophs ▾

Here is a list of research and project opportunities available from some of our professors for Fall 2021:

https://docs.google.com/spreadsheets/d/17LohQTO3vxgR6Z_nu6NthZrDnYqg_zqcqgx466_znvY/edit?usp=sharing

If you see something that piques your interest, look at the instructions on who to contact and what you need to send them for consideration. Review the project descriptions and suggested background/prerequisites.

This list will be automatically updated as faculty post new projects or close current ones. So check back regularly!

Welcome back!

Tom

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Summer Classes

- List of what is offered
  - 15-213, 21-241, 21-259, Experimental physics, etc
- Different universities, maybe near home
  - Check with advisor first

Working on campus

- TAing classes like 112,122, 150, and 151 is definitely within your reach.
  - Good opportunity to test out TA'ing without normal class commitments.
- Can be an RA for the summer
- Hold low-stress desk jobs
- Good pairing with Summer Classes and/or Research!

Going home

- Enjoy it while you can
- Good opportunity to work on programming projects without the stress of a job or schoolwork
  - Summer of Code: https://summerofcode.withgoogle.com/
- Also a good opportunity to not think about computers for a few months
- Have fun with your family and friends
  - And your dogs!

"One summer of research,
One summer at a small company,
One summer at a big company"

-Scott Krulcik

Our Experiences