
Lecture 4: Summer Opportunities

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Dog tax part 1! Luna!



Dog tax part 2!



Dog tax part 3



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!!
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Internships

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

Resumes

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

The CMU Career Center

It's their job to help you get a job!

<https://www.cmu.edu/career/>

They do mock interviews!

Help with your resume!

Will help make you a really great catch!!



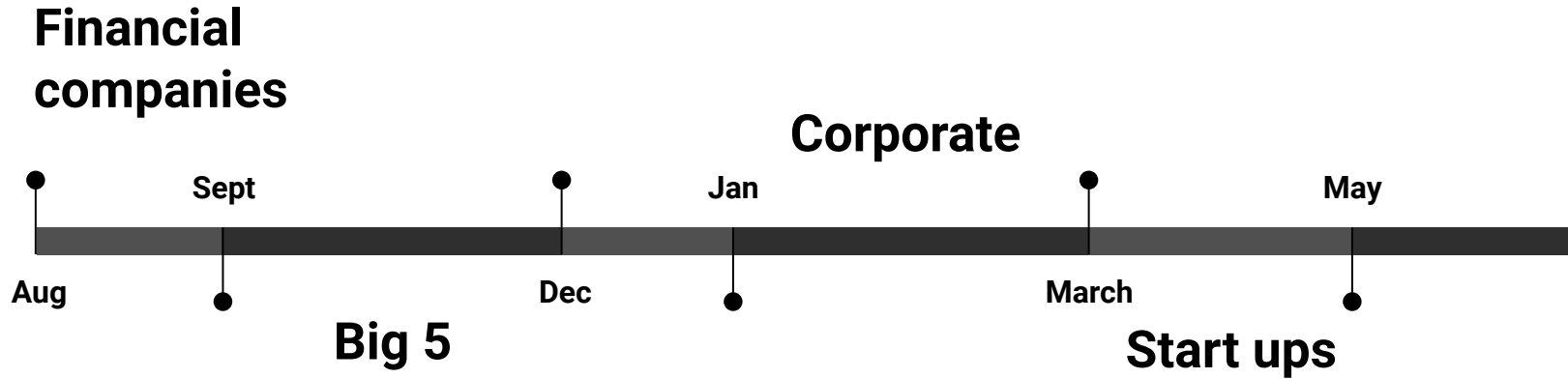


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Where to look for internships

- 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
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When do companies hire?



- Encompass CMU: Tuesday, September 24
 - Spark (Start ups): Thursday, October 24
 - Jumpstart (Freshmen & Soph only): Monday, February 3
 - Encompass (again): February 4-5, 2020
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Freshmen Intern Programs



- Intern programs specifically for freshmen
 - Good opportunity to explore big tech, but again this ISN'T a total must.
 - Popular Programs Include (all of these are open now!)
 - [Google STEP](#) (formerly Engineering Practicum)
 - [Facebook University](#)
 - [Explore Microsoft](#)
 - [Twitter Academy](#)
 - [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
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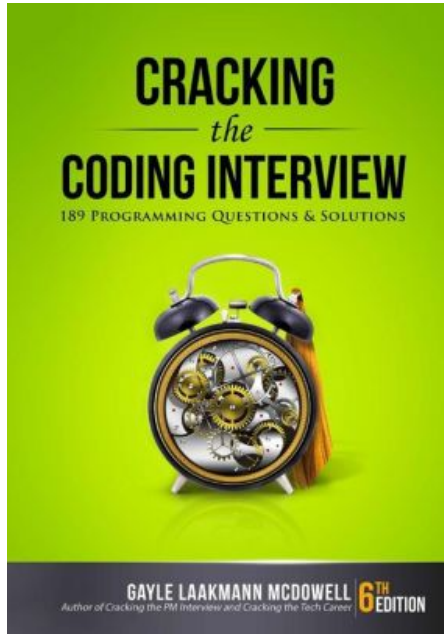
Non-technical internships

- 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>

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
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How to Study for Technical Interviews



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
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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)
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[CS-undergrads] Opportunities - Fall18 2018 (Round Two) Inbox x



Thomas Cortina <tcortina@andrew.cmu.edu>

Mon, Sep 10, 12:06 AM (7 days ago)



to cs-sophs, cs-juniors, cs-seniors, compbio_ugrads, ai-undergrads ▾

SCS Undergrads,

Some new projects have been posted for you on our [research/projects](#) page:

<https://docs.google.com/document/d/17LK18JBGR5Z9zp2gEgHjuTCjKTLtOwotUJNzvvyRyww/edit?usp=sharing>

The new projects are highlighted near the top in green.

The original projects are still listed in case you want to contact anyone.

Best,

Tom

CS-seniors mailing list

CS-seniors@lists.andrew.cmu.edu

<https://lists.andrew.cmu.edu/mailman/listinfo/cs-seniors>


Many software systems and/or being vulnerable to attacks despite developers best effort to secure them. It is often challenging to manually identify the attack surface (i.e., candidate entries into the system that could be exploited by an attacker). In this project, you will work on developing a software analysis tool that can be used to automatically extract the attack surface of a program, and apply the tool to identify potential vulnerabilities in web applications. The ideal student will have background in programming languages and/or program analysis, knowledge in security or binary methods is a plus.

Contact: Yunxiang.Kang@cmu.edu

Student Project - Fall 18

Project leads: Yunxiang.Kang@cmu.edu and Andi.Apa@cmu.edu
Contact: cmu@lists.andrew.cmu.edu

The Diverse Project aims to reorganize and extend the software stack that is used by research students. The goal is to create the "friendly environment" online. The project therefore includes tools for creation and publication of course materials, for research.

 **FALL 2018 RESEA...**

Summer Classes

- List of what is offered
 - 15-213, 21-241, 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!
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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!
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**“One summer of research,
One summer at a small company,
One summer at a big company”**

-Scott Krulcik

Our Experiences
