finding opportunities in cs

1. find opportunities in a university
    a. doing research
    b. working on a project and having a professor mentor/help you
    c. internship
        i. general lab stuff, helping out the professor, etc.
2.

1. Finding opportunities
    a. learn a few languages (python, c++, java, javascript)
    b. learn web development (html, css, react, back-end frameworks like node.js and flask)
    c. create a few projects
        i. follow tutorials
        ii. follow courses
        iii. (ensure that they're high quality)
        iv. or you can create them on your own
        v. code is well-written
            1. code has comments (describes what it does)
            2. writing tests
            3. following software dev methodologies
    d. create a resume
        i. summary + ur name
        ii. contains ur skills (languages and frameworks you know)
        iii. the projects (good ones)
        iv. relevant awards/achievements
            1. related to cs/software development
        v. one page
    e. volunteer ur services at a community level
        i. our school
        ii. the community centre
        iii. the city
        iv. a non-profit
        v. temple/church/mosque
        vi. examples:
            1. a website or application for your church/temple/mosque
            2. a platform/website for a non-profit
    f. update your resume
        i. constantly updated

2. how to find opportunities at a university
    a. READ THIS: https://cs.uwaterloo.ca/~brecht/prospective-new.html
    b. done the process above

c. cold emailing
    i. create a template
        1. your name, school, grade (indicate that ur in hs)
        2. your skills and a few achievements
        3. [space for personalization]
        4. how you've helped your community/any cool projects you've made
        5. ask for meeting
    ii. find professors on university websites
        1. ensure that the universities are big and reputable
        2. canada: uoft, uwaterloo, queens, western, mcmaster, ubc
            a. maybe keep unis local (in case of in person opportunities)
    iii. track your emails
        1. so u know your success rate and to follow up in the future
        2. google docs or notion
    iv. email a lot of professors (around 150 ideally)
        1. email around 2-3 months before when u want to start working
        2. set a timer for urself
            a. in 30 min, you should be sending 10-12 emails
            b. every day, you can send 20-25 emails
            c. (around 2-3 min per email)
        3. personalize: talk about the professor (3-4 sentences)
        4. "i found ur research cool"
        5. "ur work on computer graphics and web development is really interesting"
        6. "i share those interests too, so i'd love to work with you"
d. track meetings
    i. dont be late and dont forget
    ii. respect their time and respect them
e. make your decision
    i. 0-2 offers if you send 200+ emails
        1. dont be hasty
        2. make your decision

example personalization:

- I found your work regarding Internet of Things captivating and would love to be involved in understand it to a greater depth. Personally, I find IoT a really cool topic since I love how the Internet can play a role in our everyday lives and routines. Privacy is a huge concern when it comes to IoT, and your paper on TussleOS opened my eyes onto how users and applications are fighting for private data. - https://cs.uwaterloo.ca/~brecht/

1. finding opportunities at companies
    a. target startups that have anywhere from 10-150 employees
    b. cold emailing process is similar
        i. two different templates for profs and companies

        ii. talk about how u could add value
        iii. dont mention research
    c. linkedin - create a linkedin profile (basically like an online resume)
    d. ensure that you're connected to people to you know (have at least 50 connections)
    e. either contact companies through email, or linkedin
        i. where to find companies
            1. y combinator: https://www.ycombinator.com/companies?regions=Canada
            2. linkedin

example company personalization

- Convictional's value proposition of making client onboarding easier really appealed to me. I found that you offered an API for suppliers and buyers to interact with each other. [add more stuff here].