

THE WORLD OF WORK

Navigating the landscape of tech employment in 2018



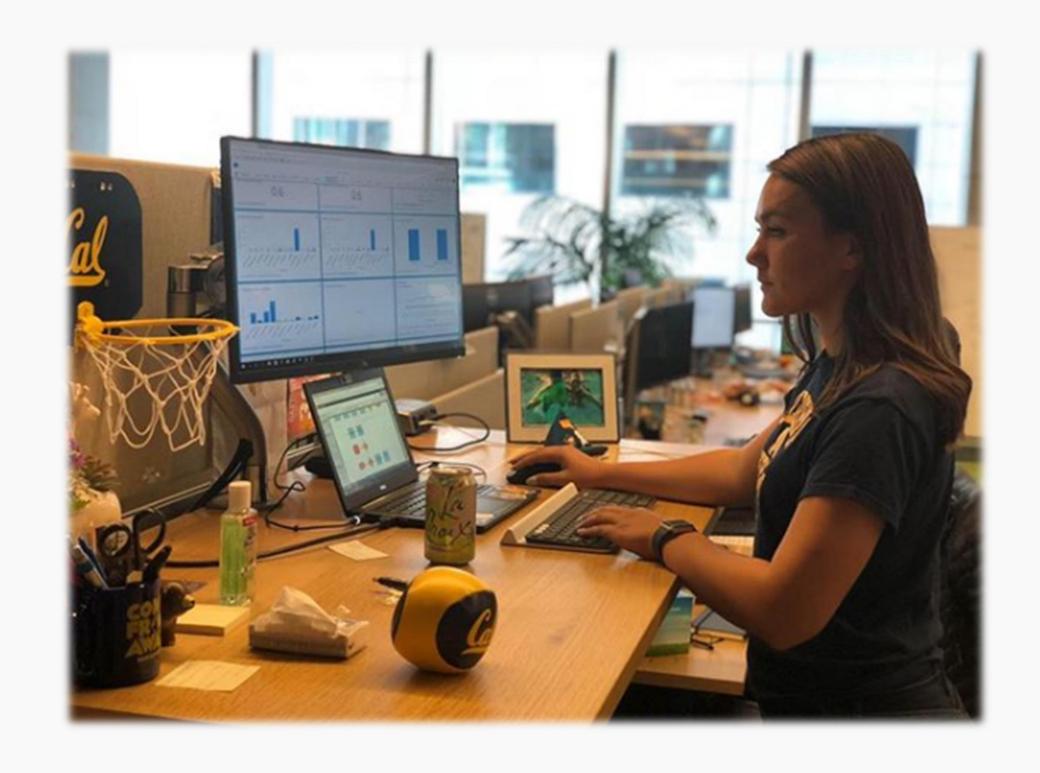
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Resources and Links

Guest Speaker Panel



What are internships?

Internships are official programs offered by an employer to potential employees. They include technical work ranging from Quality Assurance to R&D on bleeding edge technology.

They are usually **3-4 months** in length, and require the candidate to be returning to school after completion of the internship.

All Canadian internships must be <u>paid</u>.

Think about an internship as a **preview** or **demo** of your abilities and fit with your employer.



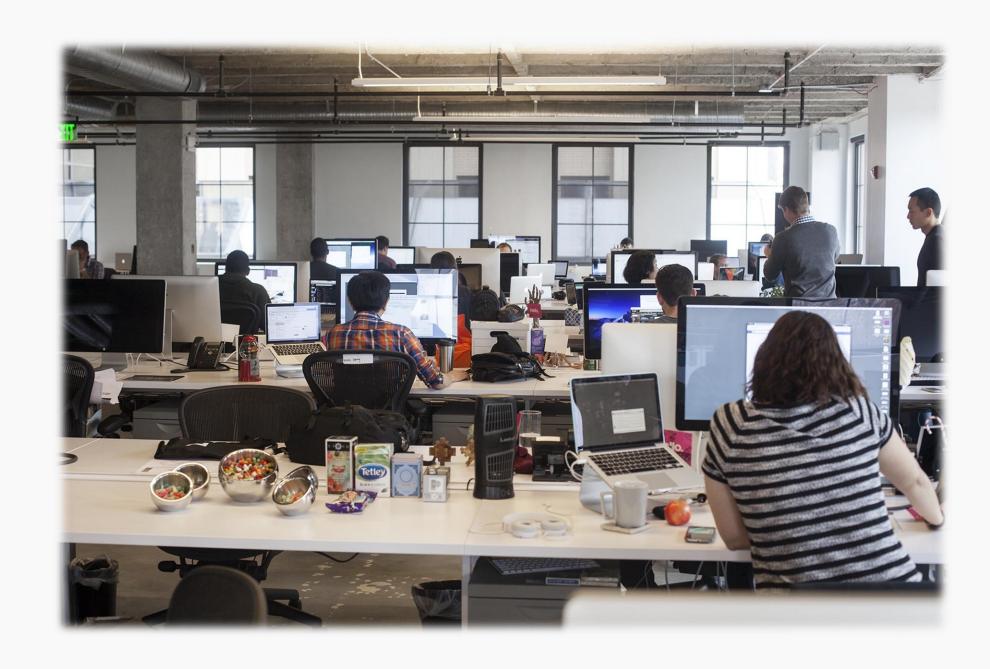


Internship Types

Internships are fairly short, meaning that the intern often doesn't have the time to ramp up and contribute at the same pace as full time employees.

Some companies do **Project-based** internships, which an intern is assigned to a project to deliver on. These are usually isolated projects that provide value to the company (infrastructure, tools, etc.)

Other companies do **Team-based** internships, where interns join a team as a full individual contributor and run through tickets and tasks like full-time employees to get a feel for the team and work.



Internship Programs

First and Second Year students can look for programs that promote learning and exploration. Check out **Google** Engineering Practicum, **Microsoft** Explore, **Palantir** Path, and **Amazon** Future Engineer + more!

Third and Fourth Year students are in high demand! Most internships look for upper year students so they can secure talent and offer conversions for interns. Apply everywhere!

Masters and Postgrad students have a lot of opportunities too! Most companies have R&D sectors, such as X for Google. Most **Machine Learning / Computer Vision / Deep Learning** positions also only consider postgraduate students for internships.

Internship Career Paths







Software Engineer



Product Manager



QA Analyst



Data Scientist

+ many more!

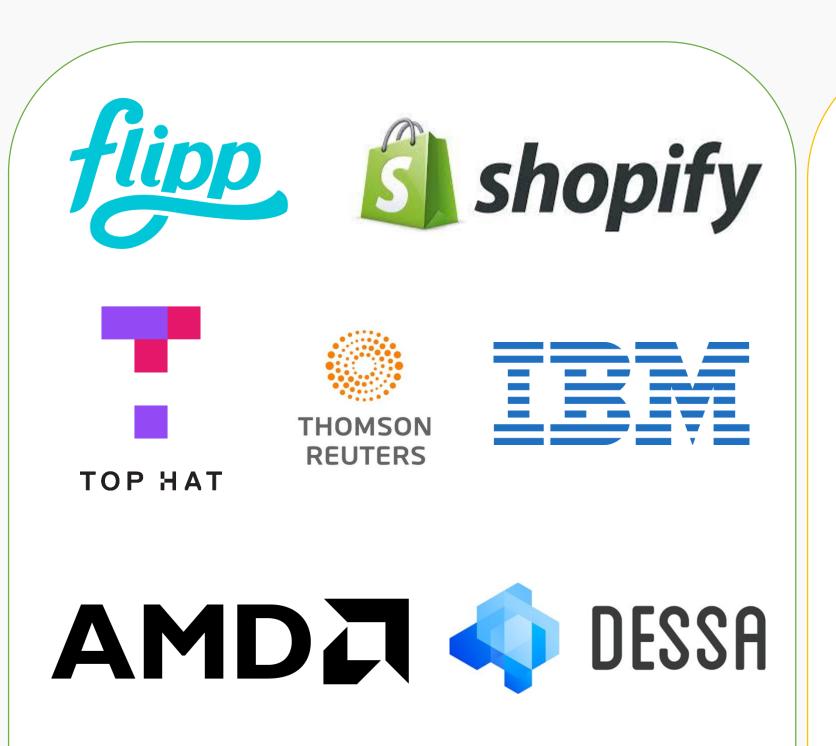
PEY Summer Co-op

Professional Experience Year (PEY) UTSG, UTM, UTSC	Co-op Program	Summer Internship
	UTSC, UW, UBC, McMaster, etc.	All Universities
12 – 16 months	4 months	3 – 4 months
Offered by select companies	Offered by select companies	Offered by most companies
Year round recruiting	Summer/Fall/Winter Terms	Summer
More in-depth but less breadth Small amount of competition	More breadth but less in-depth Moderate competition	More breadth but less in-depth Very competitive

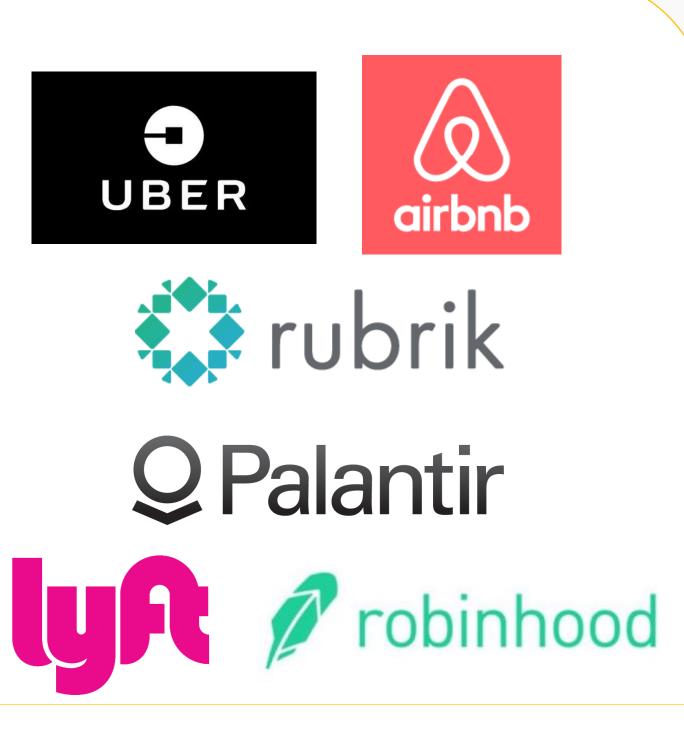
Classifying Companies



Hedge Funds/Quant Firms



Local Internships



Unicorn Companies



Big N Companies

Looking for Opportunities



EmployeeReferrals



LinkedIn and Recruiters



Career Fairs



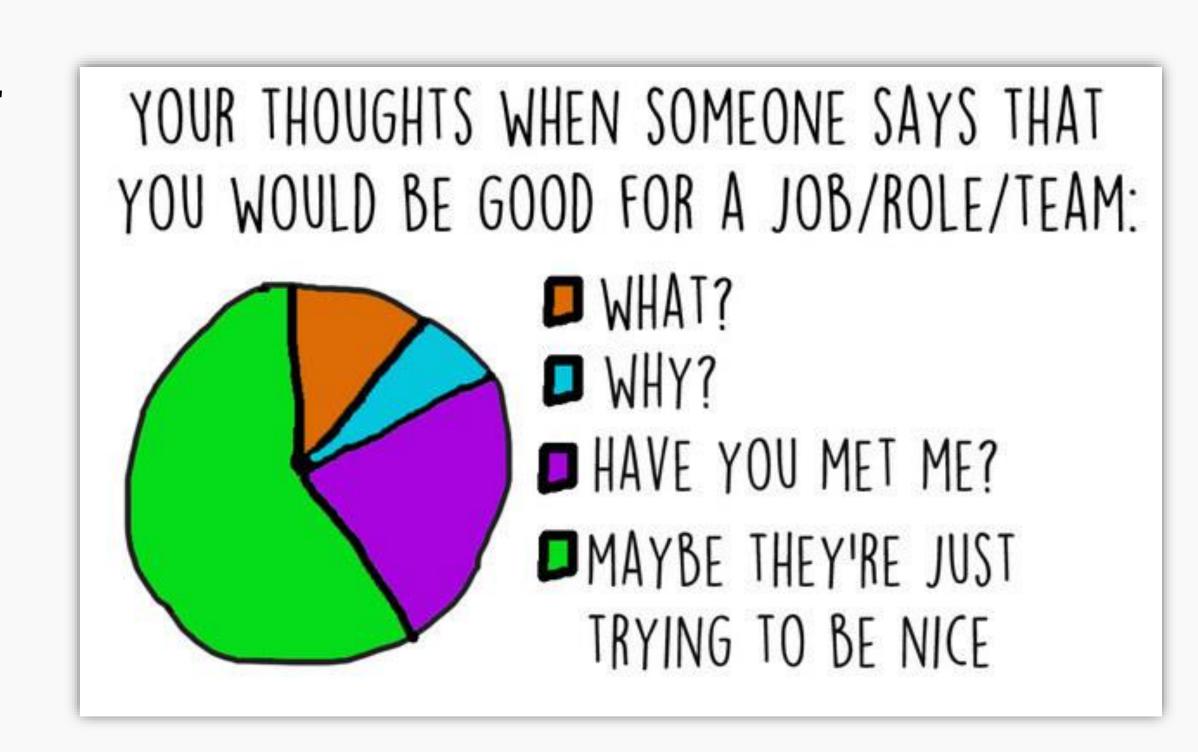
Applying Online

Impostor Syndrome

A lot of candidates experience severe **Impostor Syndrome** when starting the job search – they're afraid they're not qualified, wasting the company's time, not worth their pay, etc.

People experience impostor syndrome all the time. Impostor syndrome can occur:

- During job applications
- During interviews
- After they get the offer
- When they're actually working



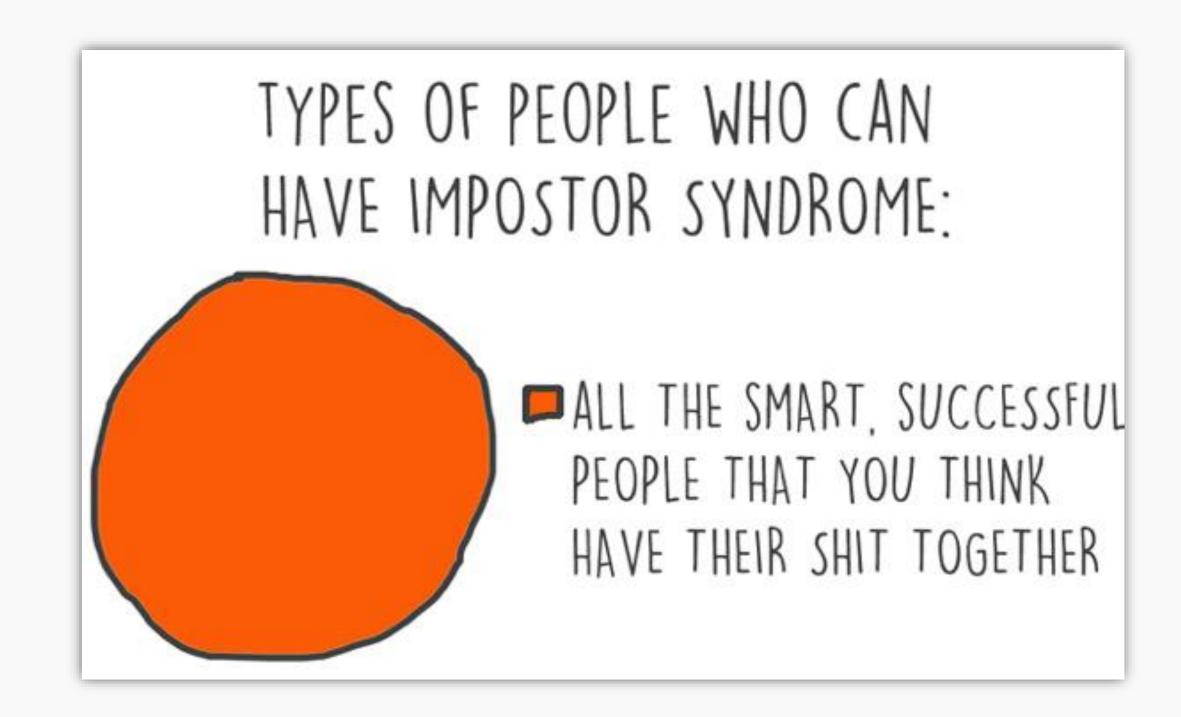
Impostor Syndrome

Internships in particular are very forgiving. Always keep in mind that:

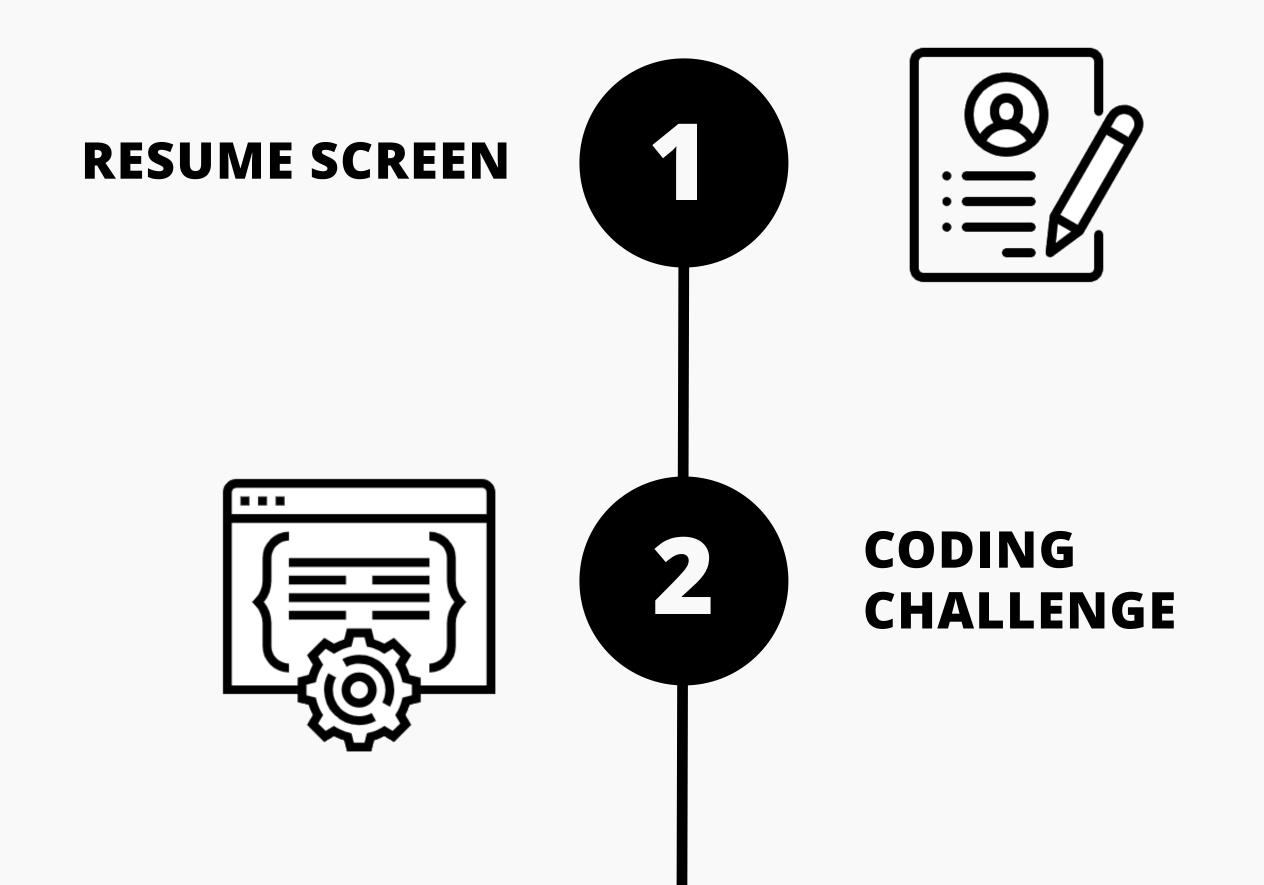
- Job qualifications are a wish list
- Interns only need to be **quick to learn** and eager to improve
- Expectations for intern contributions are usually fairly low
- The worse that can happen is a rejection, a flunked interview, or no return offer

And finally...

You're better than you think



Technical Recruiting Process





The Resume Screen

Order of Importance

- Relevant Experience
- Projects
- Education
- Technical Skills
- Awards
- Irrelevant Experience

Order on Resume

- Education/Awards
- Relevant Experience
- Projects
- Technical Skills
- Other

John Doe

Email & Phone Number & City, State & LinkedIn & Github

EDUCATION

University Name
December 2018

B.S. in Computer Science

City, State

- Current Cumulative GPA: 3.90
- Awards: [University Name] Dean's List (Fall 2014 Present)

PROJECTS

Project 1 Name Summer 2018

An interval timer Android application

- Programmed an interval timer so that when people are exercising/playing games, they can easily switch from exercising/playing and taking breaks
- Developed buttons that can pause/resume the timer and cancel the timer
- Skills Used: Java, XML, Android Studio

Project 2 Name Spring 2018

A search engine web application

- · Programmed a search engine that displays a list of websites based on the search query the user types in
 - Websites where the search term(s) appear more frequently are ranked above others
 - For locations that have the same frequency of search term(s), locations where the words appear in earlier positions are ranked above others
 - For locations that have the same frequency and position, the results are sorted by URL in case-insensitive order
- Skills Used: Java, Jetty, HTML, CSS, JavaScript, MySQL

Project 3 Name Spring 2018

A custom version of a Linux command line shell

- Able to run built-in commands as well as commands in both the current directory and those in the PATH environment variable
- · Tracks how long each process runs while executing a command and makes this information available in the history
- Skills Used: C

Project 4 Name Spring 2018

A Unix command line utility that recursively searches for matching file names

- Programmed a Unix tool that finds and displays the filenames present in a directory that partially or exactly match the search term(s) the user types in
- Skills Used: C

SKILLS

Food Server

- Programming/Markup Languages: Java, Python, C, HTML, CSS, XML, JavaScript, MS SQL Server, MySQL, Octave
- Tools, Technologies, Frameworks: Jetty, Android Studio, Subversion, Git, React

VOLUNTEER EXPERIENCE

Non-profit Organization Name

September 2016 – December 2016

City, State

- Served 1000+ meals to the homeless
- · Constantly interacted with kitchen staff, other servers, and customers in order to provide quality service

The Resume Screen

Often the screen that eliminates the most candidates. Here's a few tips:

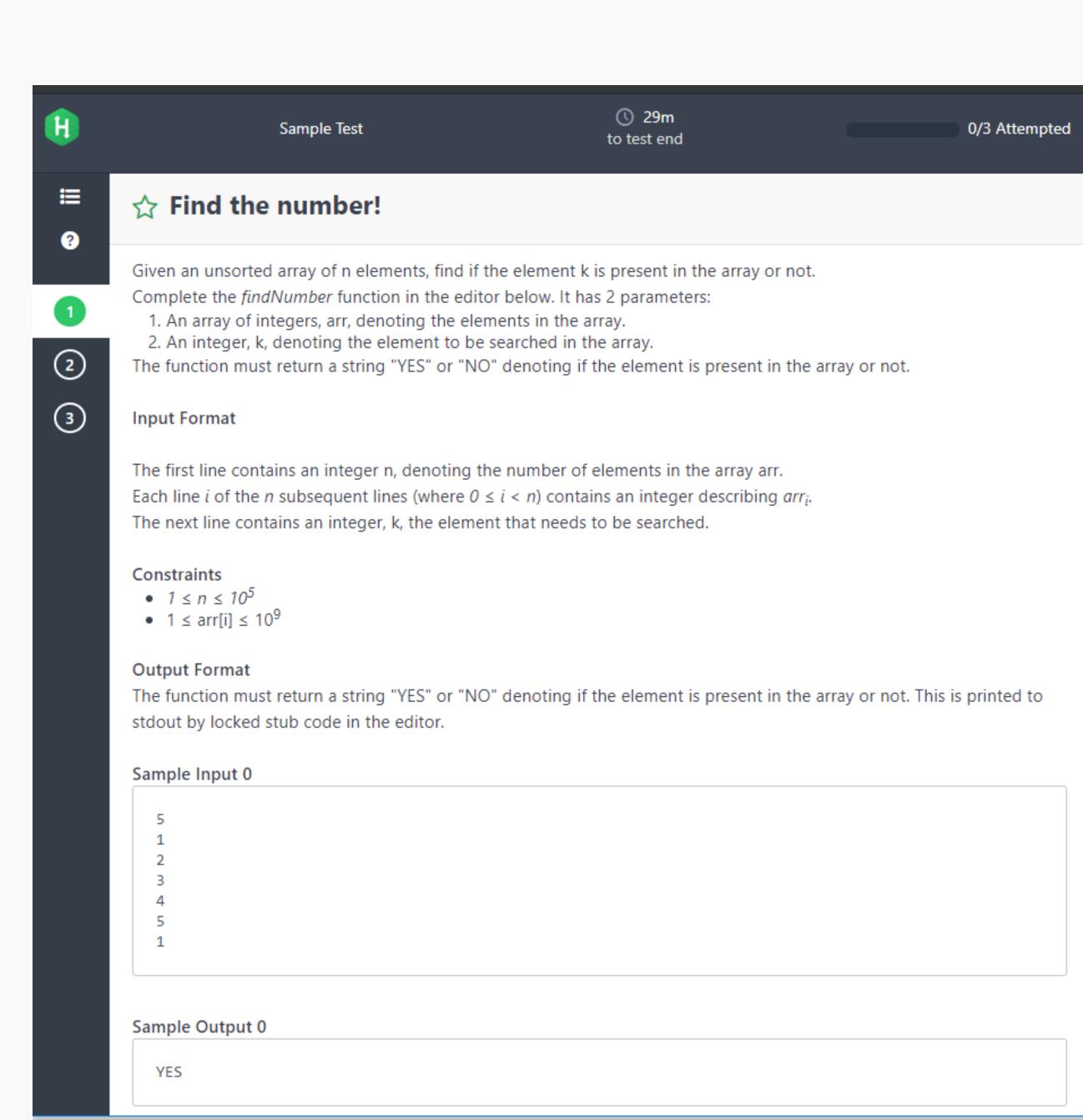
- **GPA is optional** consider removing if below 3.0 (also Major vs Cumulative)
- **Projects are important!** If you've created anything during classes (B07, B09, B58, C01, D01, etc.) put it on your resume!
- Quantify your work! Instead of saying 'increased efficiency', say something like 'increased efficiency by 40%'
- Make it readable! Play with fonts, margins, and boldness to emphasize key points
- DOUBLE CHECK YOUR WORK! Check for spelling, grammar, and proper nouns

The Coding Challenge

Coding Challenges are programming tests that companies often issue to candidates. These are usually through HackerRank, Codility, HireVue.

You're given a time limit (usually 1h-3h) to solve several algorithmic questions. Your solution must compile and solve their test cases. You can use almost any language!

You can get practice with these questions through LeetCode, HackerRank, and Coding Competitions



Technical Interviews

Technical Interviews are the main component of the interview process! Be ready to jump into a call with an engineer and solve some problems! These interviews can be via **phone** or **video call**, and often are **45m – 60m** long

Time	Event
5 minutes	Introduction and Formalities
5 - 10 minutes	Past Experiences and Projects
20 – 40 minutes	Coding Problem(s) done via collaborative editors (HackerRank, TitanPad, CodePad)
10 minutes	Solution Analysis correctness, space/time analysis and tradeoffs, design choices, improvements
10 minutes	Questions and Next Steps

Behavioral Interviews

Behavioral Interviews can be done before or after technical ones. These can come in many forms:

- Talk with future manager or team lead regarding technical competencies, preferred work, and scope of work
- Talking about leadership, teamwork, collaboration, conflict resolution, project management, and other soft skills
- Talking about what values you hold and if they align with company values

The Offer

You've gotten an offer! **Congratulations!**

Things to keep in mind:

Compensation

Duration

Benefits

Commute

Conversion Program

Mentorship

Feedback and Growth

Visa Sponsorship

Response Deadline

(is it a fair market rate?)

(how long is the internship?)

(what kind of perks does it have?)

(how far away is it?)

(are full-time roles offered to interns?)

(how will interns be trained and onboarded?)

(how will the intern be evaluated and given feedback?)

(if in a country foreign to Canada)

(how long do you have to decide?)

Helpful Resources

Algorithmic Problems





Interview Preparation



Pramp – Practice Interviewing Online!



Mock Interviews – Practice with a friend!

Company Reviews



Glassdoor – Company Insights and salary

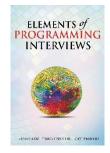


InternCompass –
Intern program review
and salary/perks

Prep Books



Cracking the Coding Interview



Elements of Programming Interviews

Job Searching



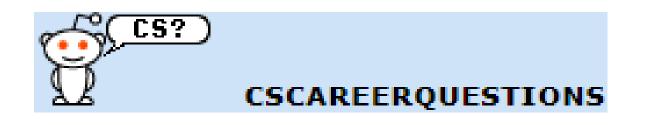


LinkedIn and Referrals



Career Fairs!

Reddit Communities





Guest Speakers Panel





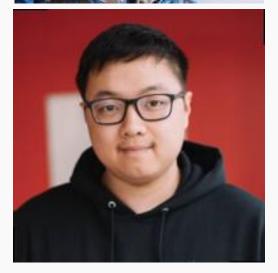


Vincent T.

Jason P.









Vanshil S.





Brian C.

















Neeilan S.



