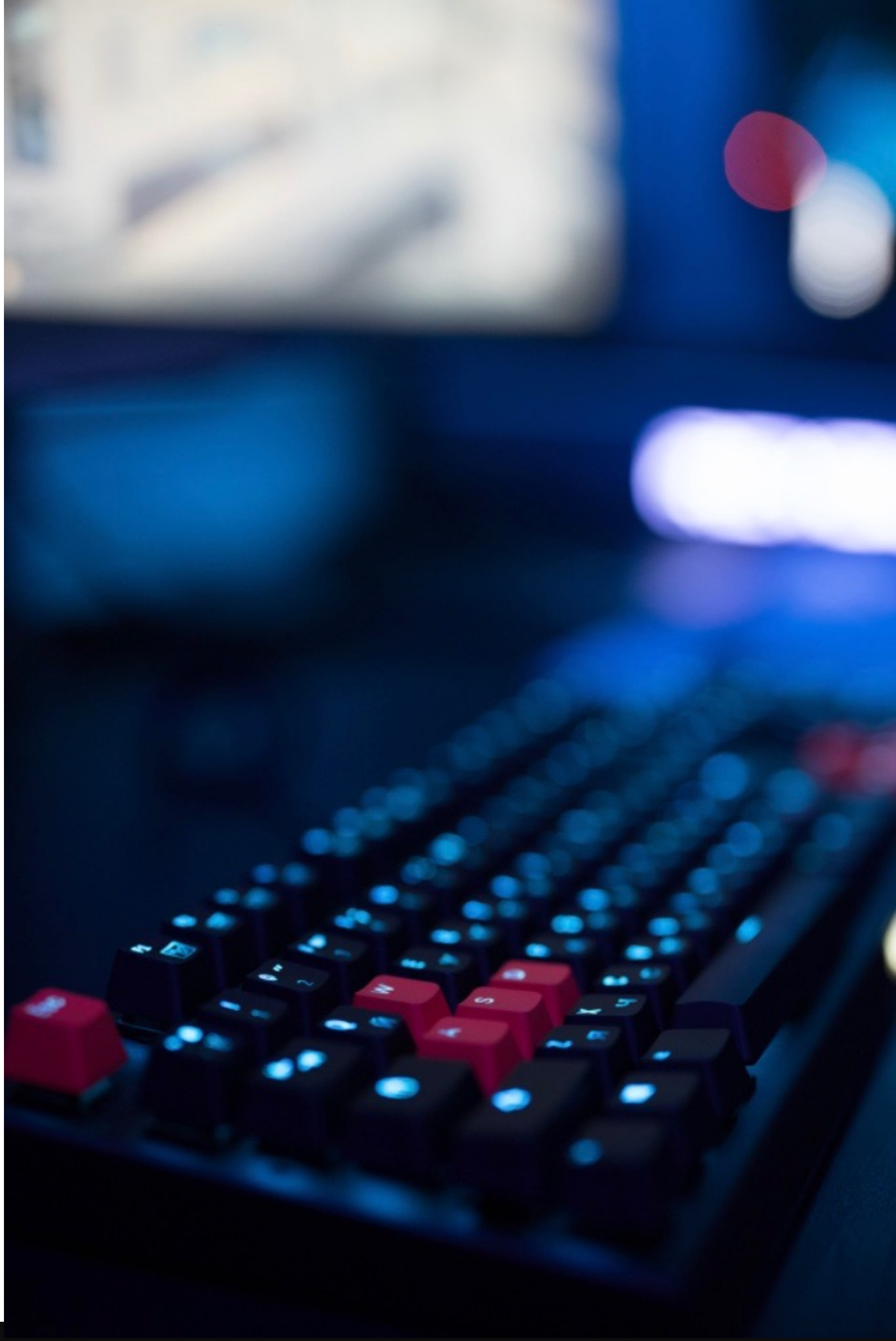
QUEENS' COLLEGE
CAMBRIDGE

Computer Science – Careers

What You Need To Know About internships, timings & CVs

- **See What Past Cambridge Computer Science grads are doing now**
- **Timings for applications**
- **When & Where To Source Computer Science-Related Roles/Internships**
- **How to optimise your CV**

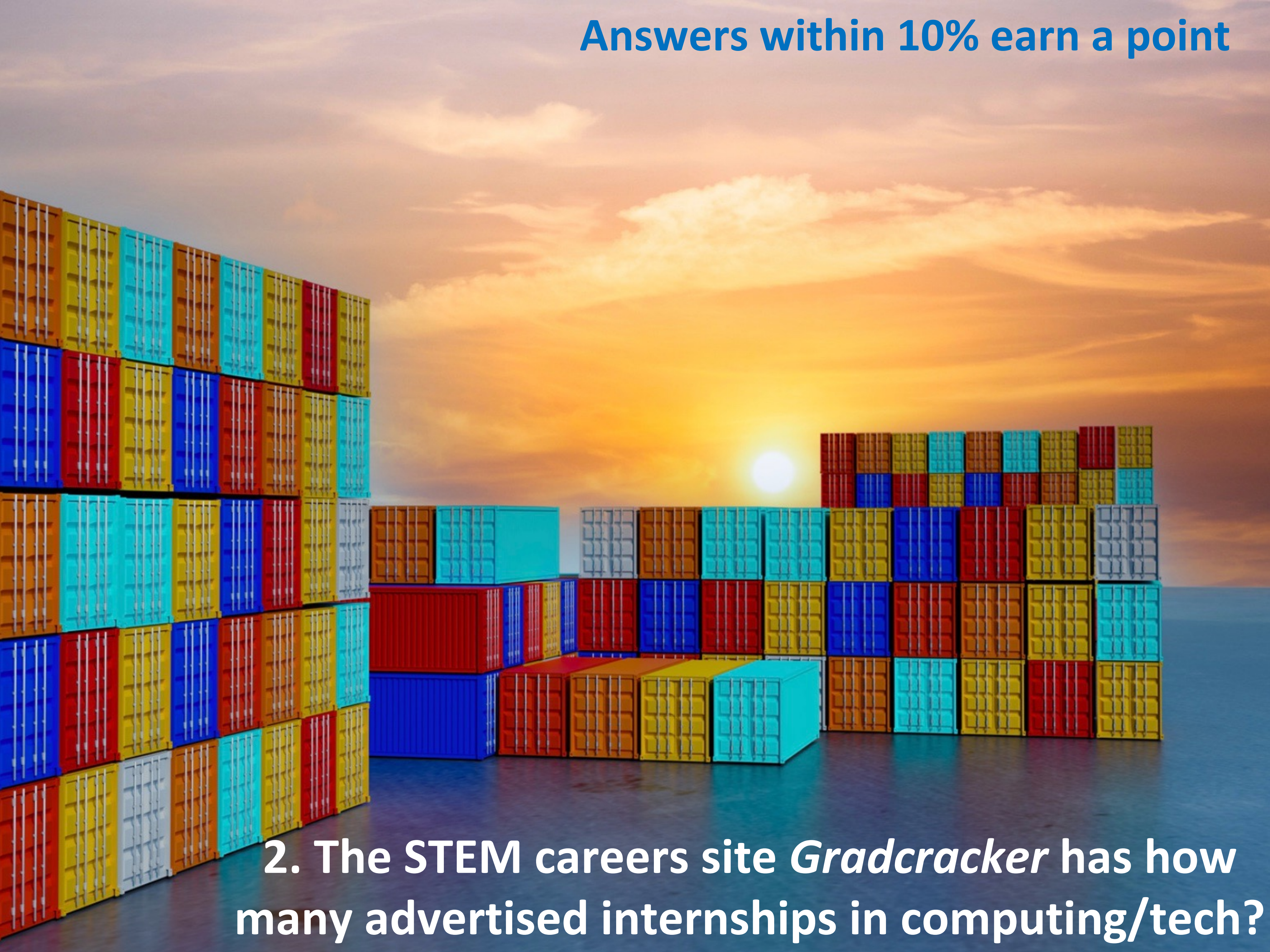


… a quick quiz…

Of the 190k people studying at Cambridge between 2005 and 2020 who share what they do now on LinkedIn, how many reference *'computer science'* on their profile?

- **591**
- **1,591**
- **2,591**

Answers within 10% earn a point



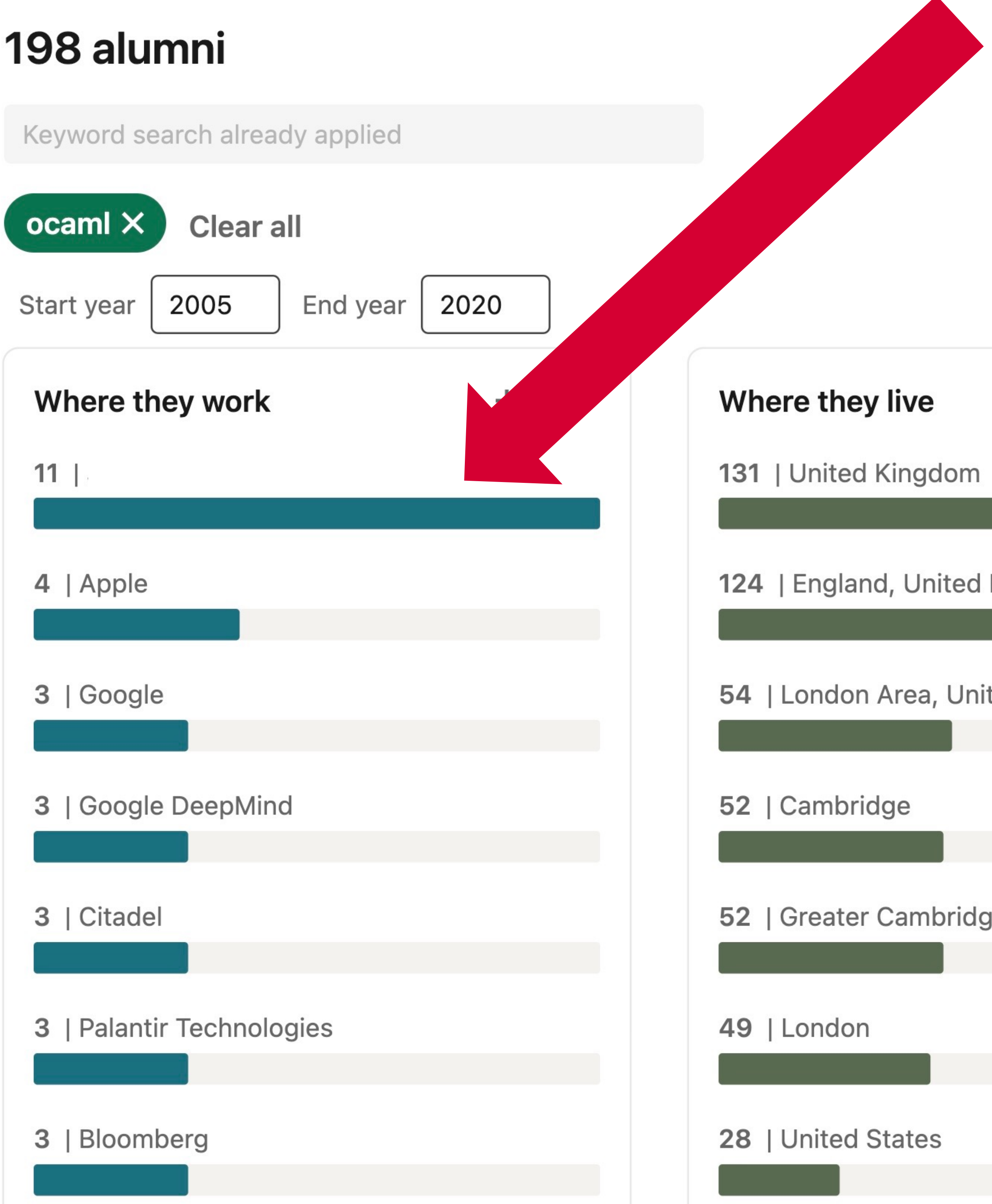
2. The STEM careers site *Gradcracker* has how many advertised internships in computing/tech?

True or false?

3. Internship availability peaks in Michaelmas Term

4. There are 198 LinkedIn matches with those studying at Cambridge between 2005 & 2020 who reference *'Ocaml'* on their profile. The most popular place of their work is…

- **Amazon**
- **Goldman Sachs**
- **Jane Street**



198 alumni

Keyword search already applied

Start year 2005 End year 2020

Where they work

11 |

4 | Apple

3 | Google

3 | Google DeepMind

3 | Citadel

3 | Palantir Technologies

3 | Bloomberg

Where they live

131 | United Kingdom

124 | England, United

54 | London Area, Unit

52 | Cambridge

52 | Greater Cambridg

49 | London

28 | United States

5. What percentage of roles are never advertised?

Answers within 10% earn a point

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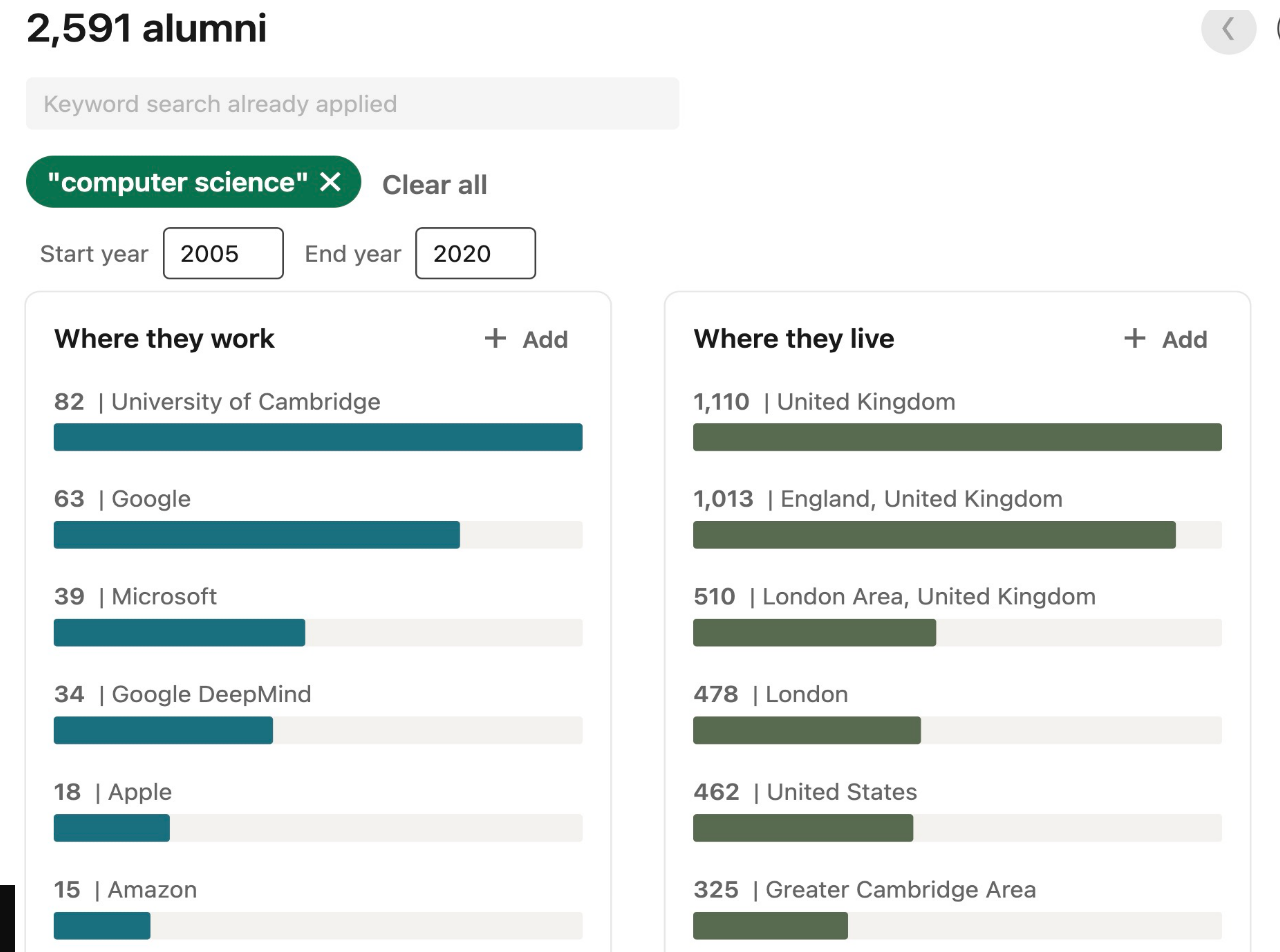


2,591 alumni

Keyword search already applied

"computer science" ✕ Clear all

Start year 2005 End year 2020

Where they work

82 | University of Cambridge

63 | Google

39 | Microsoft

34 | Google DeepMind

18 | Apple

15 | Amazon

Where they live

1,110 | United Kingdom

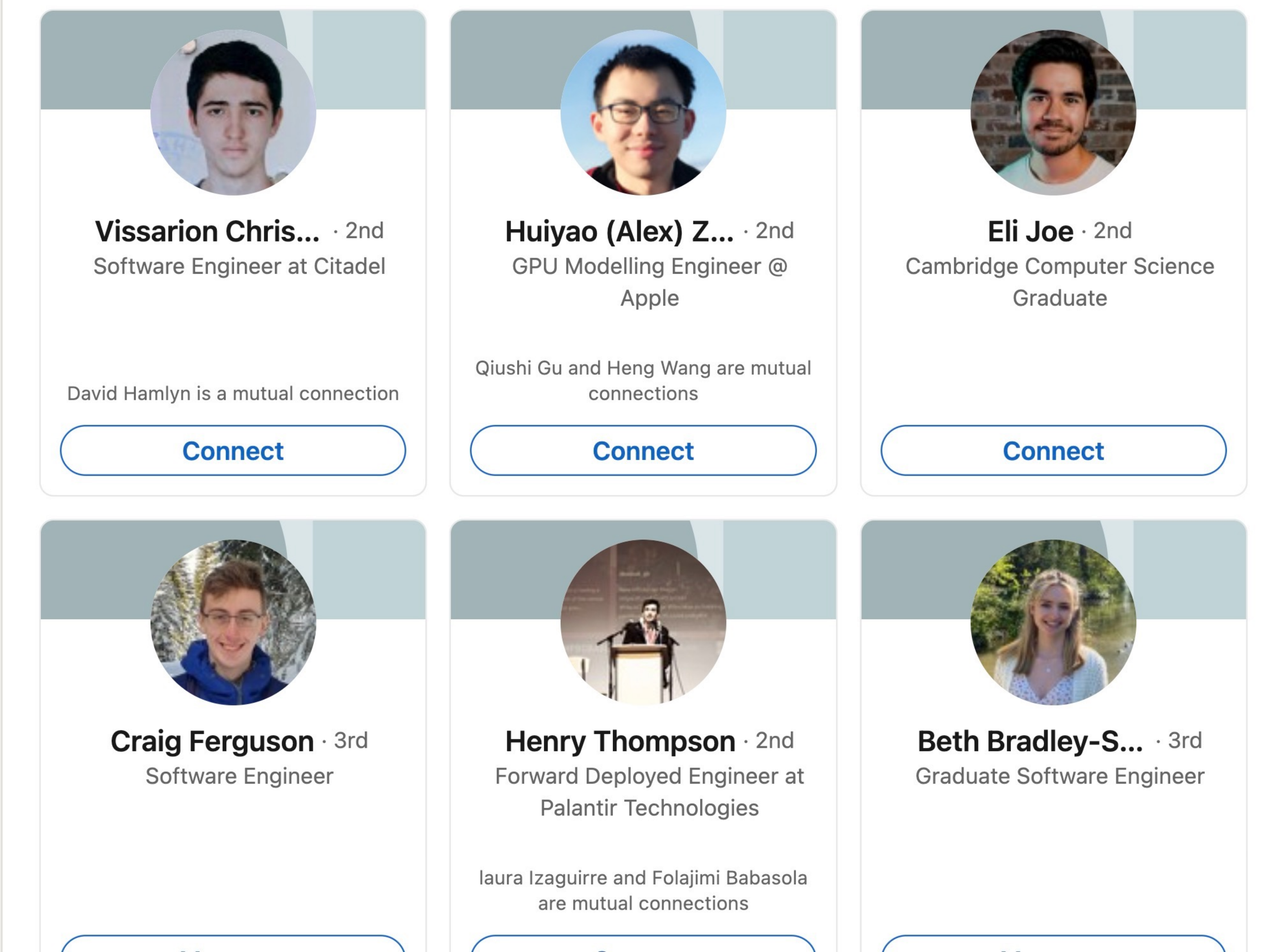
1,013 | England, United Kingdom

510 | London Area, United Kingdom

478 | London

462 | United States

325 | Greater Cambridge Area



Vissarion Chris... · 2nd
Software Engineer at Citadel

David Hamlyn is a mutual connection

Huiyao (Alex) Z... · 2nd
GPU Modelling Engineer @ Apple

Qiushi Gu and Heng Wang are mutual connections

Eli Joe · 2nd
Cambridge Computer Science Graduate

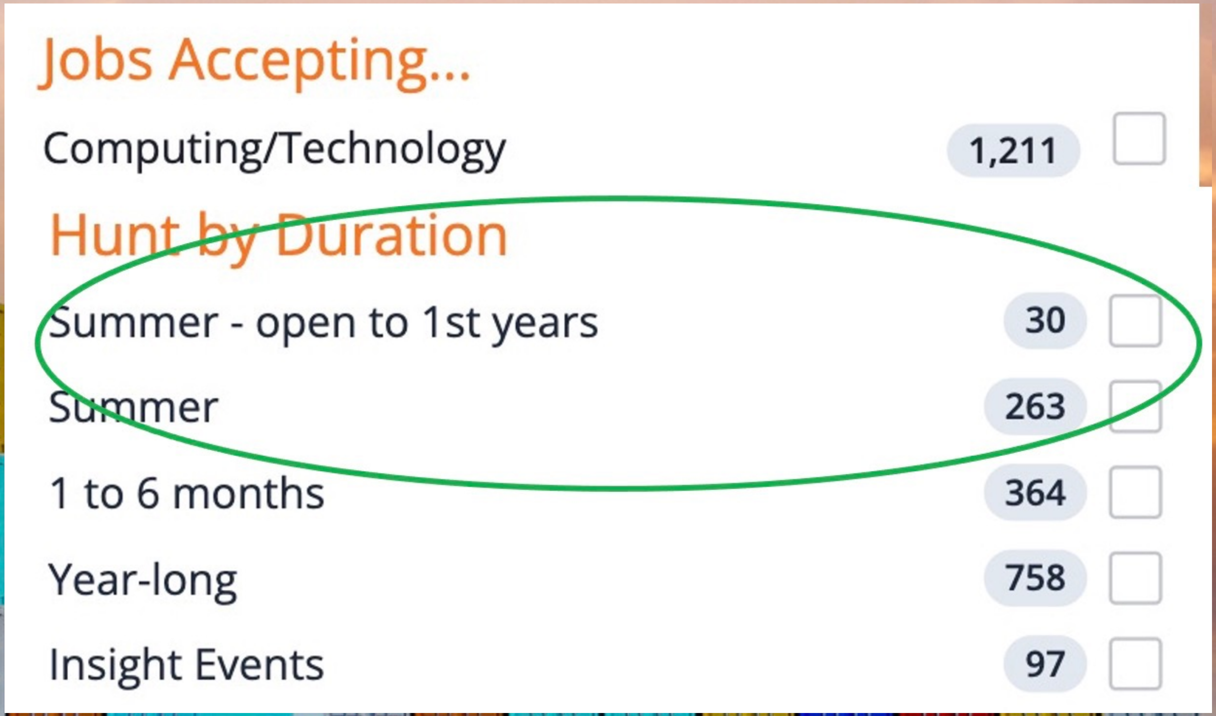
Craig Ferguson · 3rd
Software Engineer

Henry Thompson · 2nd
Forward Deployed Engineer at Palantir Technologies

laura Izaguirre and Folajimi Babasola are mutual connections

Beth Bradley-S... · 3rd
Graduate Software Engineer

Answers within 10% earn a point



Jobs Accepting...

Computing/Technology	1,211	☐

Hunt by Duration

Summer - open to 1st years	30	☐
Summer	263	☐
1 to 6 months	364	☐
Year-long	758	☐
Insight Events	97	☐

1 point if you're within 10%...

264 – 322

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~~True or~~ false?

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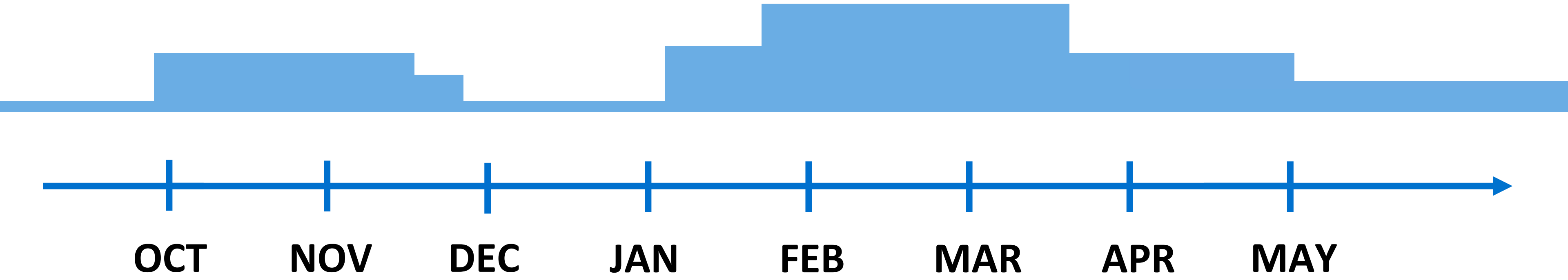

KEY:

🟦 Advertised Internships

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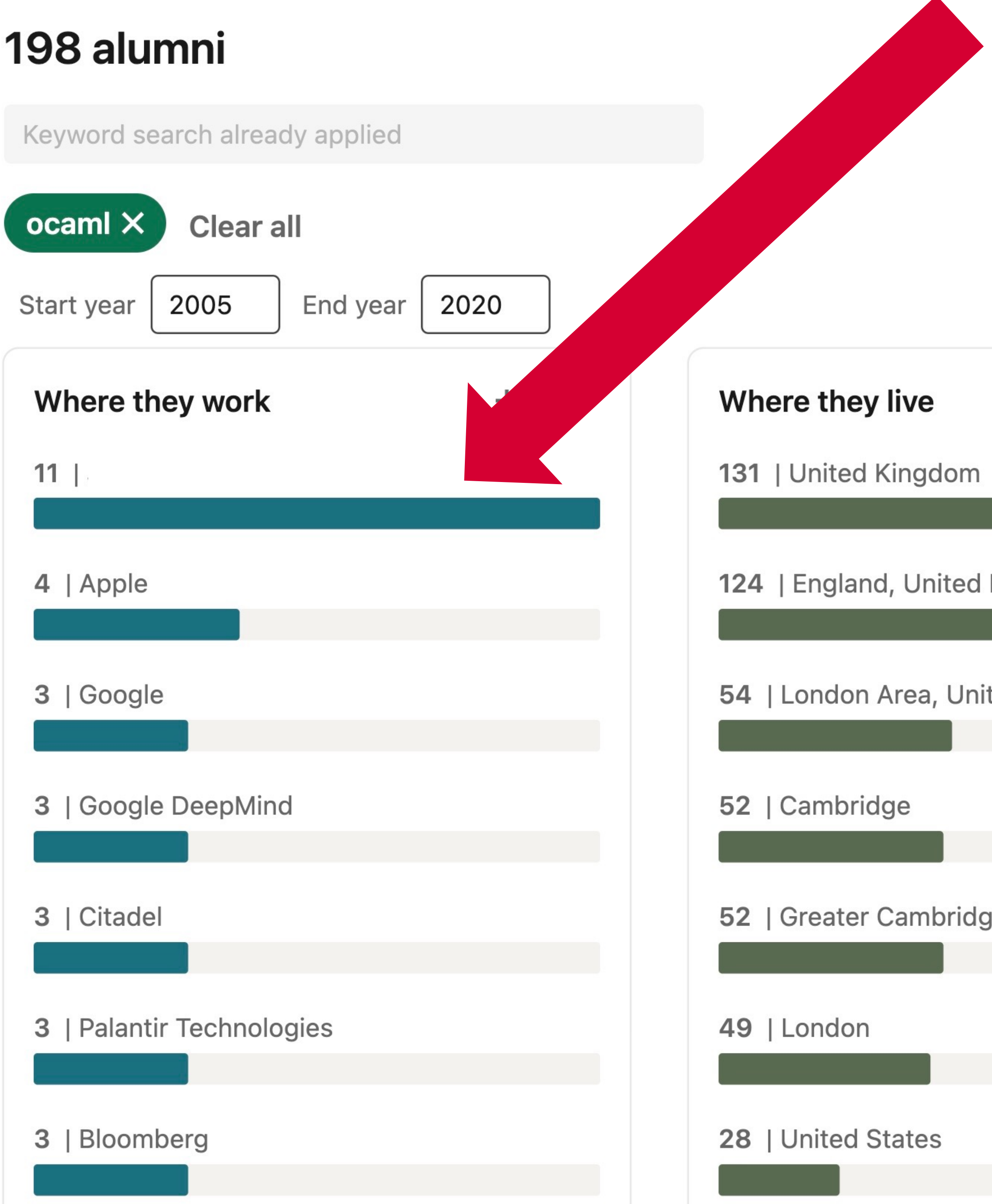

198 alumni

Keyword search already applied

ocaml ✕ Clear all

Start year 2005 End year 2020

Where they work

11	
4	Apple
3	Google
3	Google DeepMind
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Where they live

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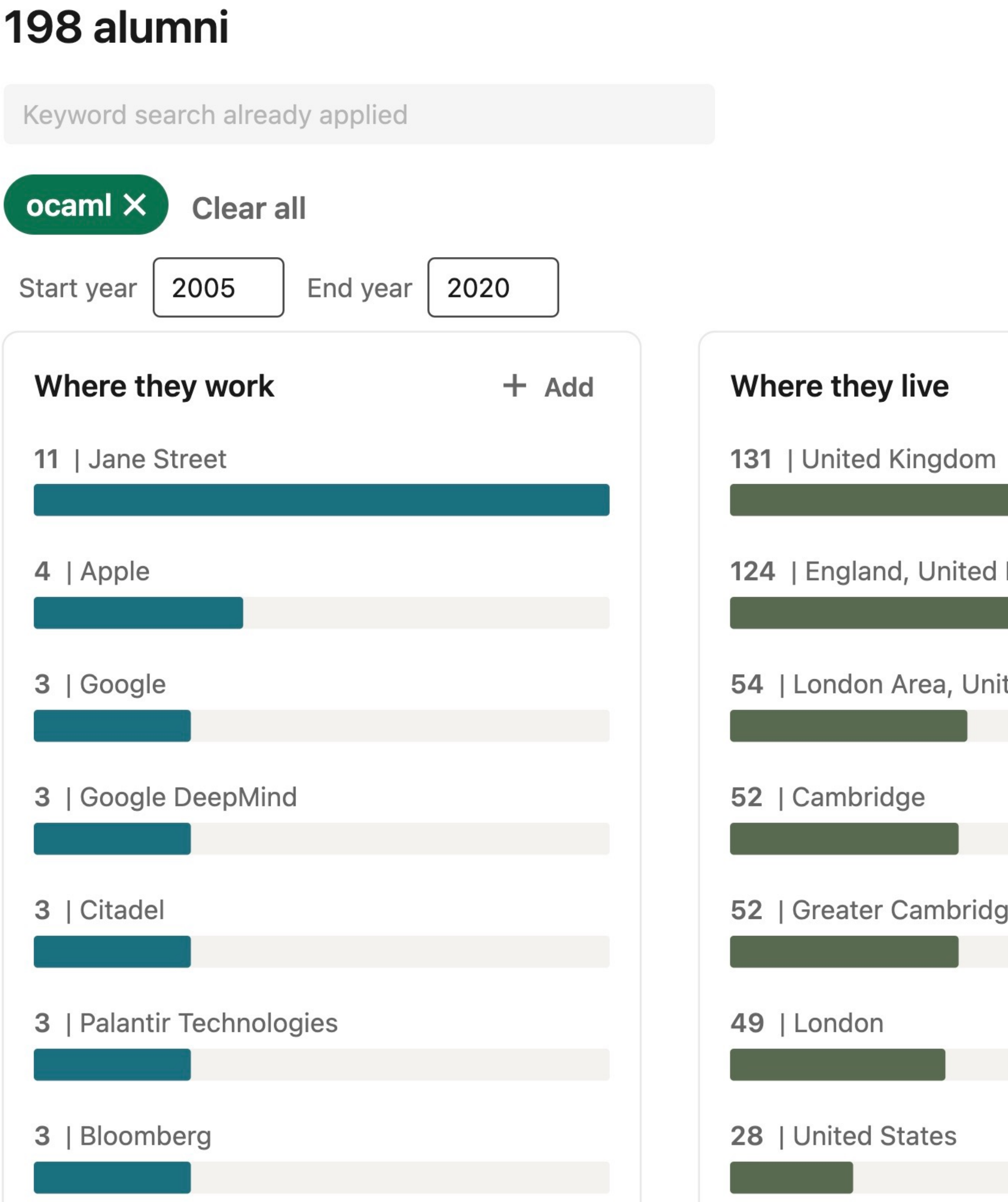

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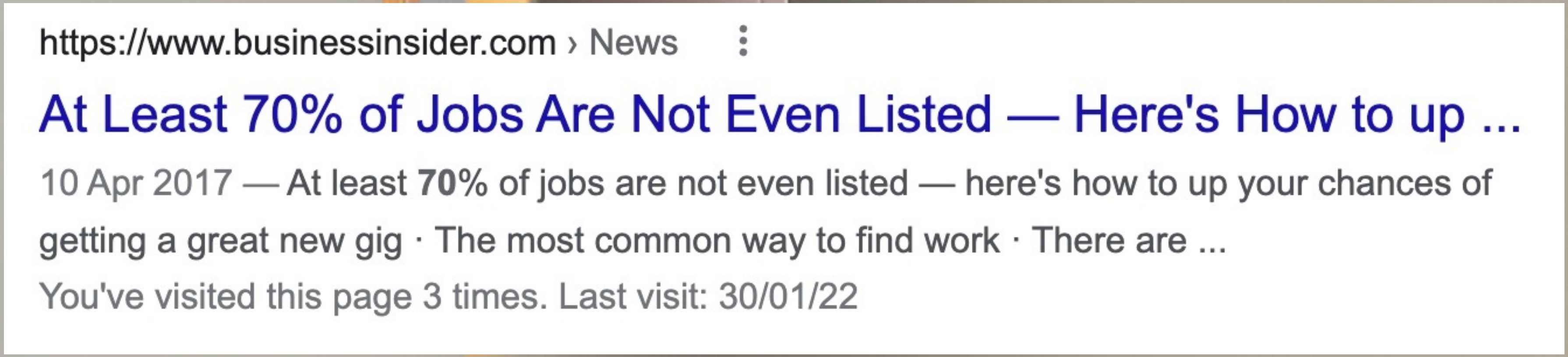
5. What percentage of roles are never advertised?

Answers within 10% earn a point

70%

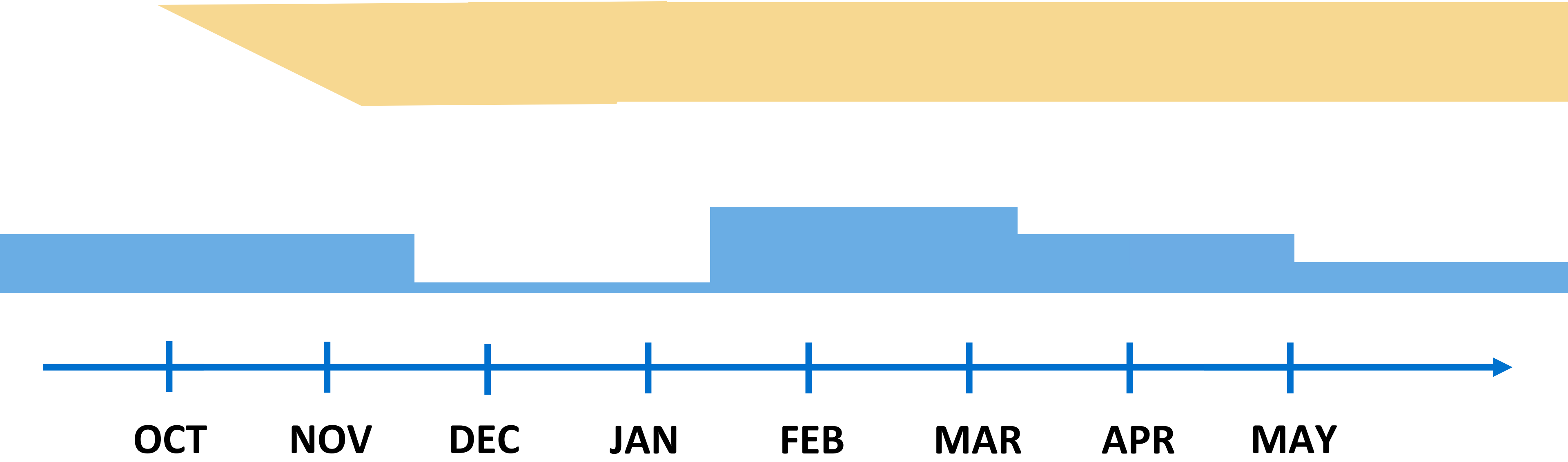


https://www.businessinsider.com › News

At Least 70% of Jobs Are Not Even Listed — Here's How to up ...

10 Apr 2017 — At least **70%** of jobs are not even listed — here's how to up your chances of getting a great new gig · The most common way to find work · There are ...

You've visited this page 3 times. Last visit: 30/01/22



KEY:

Advertised Internships

Speculative Apps

Dear Nissim, I love the sound of your work using NLP techniques to power search engines for text. There’s a parallel with my own experience; I’m building and evaluating an NLP system as part of my computer science degree at Cambridge, applying part-of-speech stochastic tagging. Might we be able to have a chat about how I could get professional exposure to the work you’re doing? I’m really interested to know more. Kind regards,<*x*>

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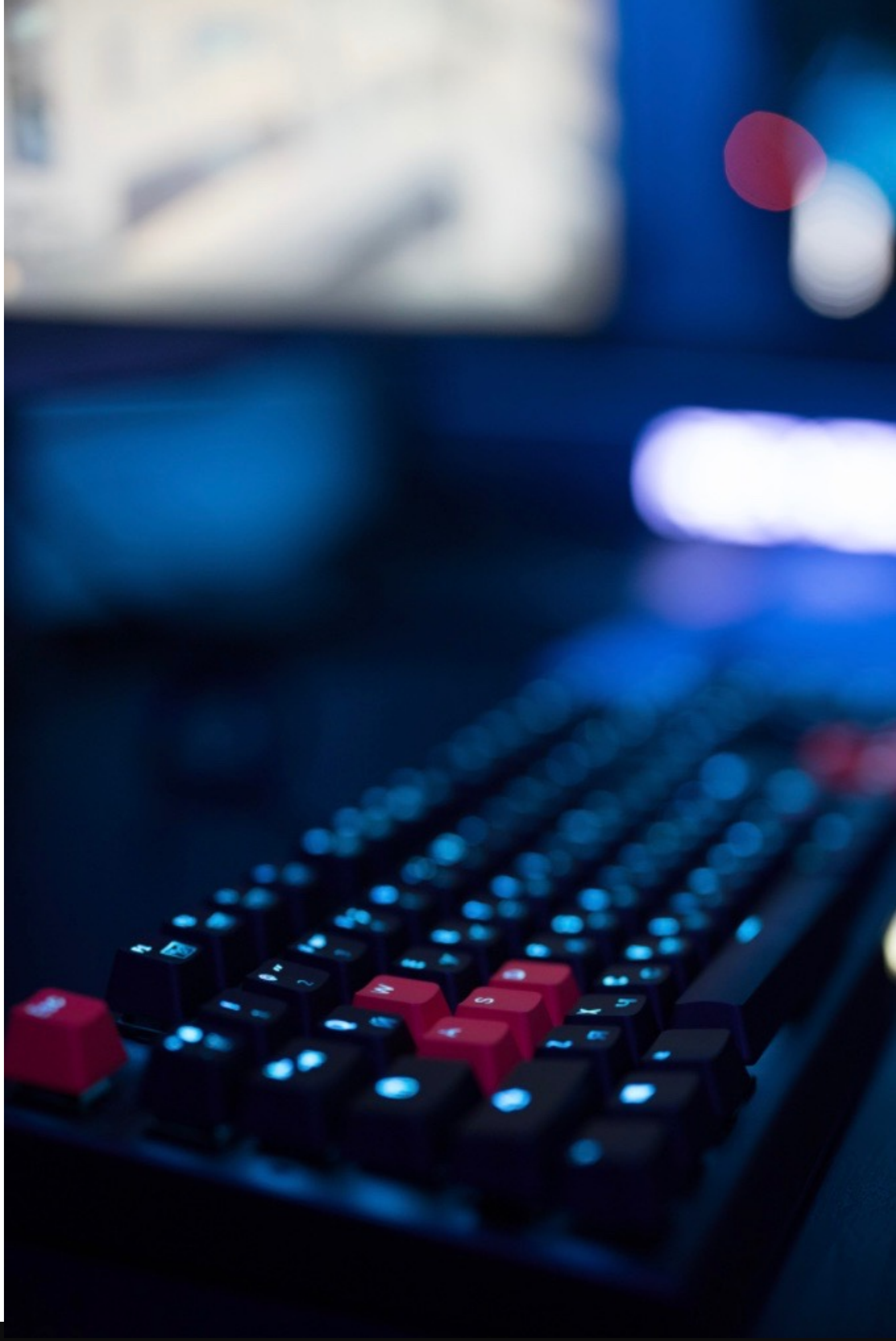
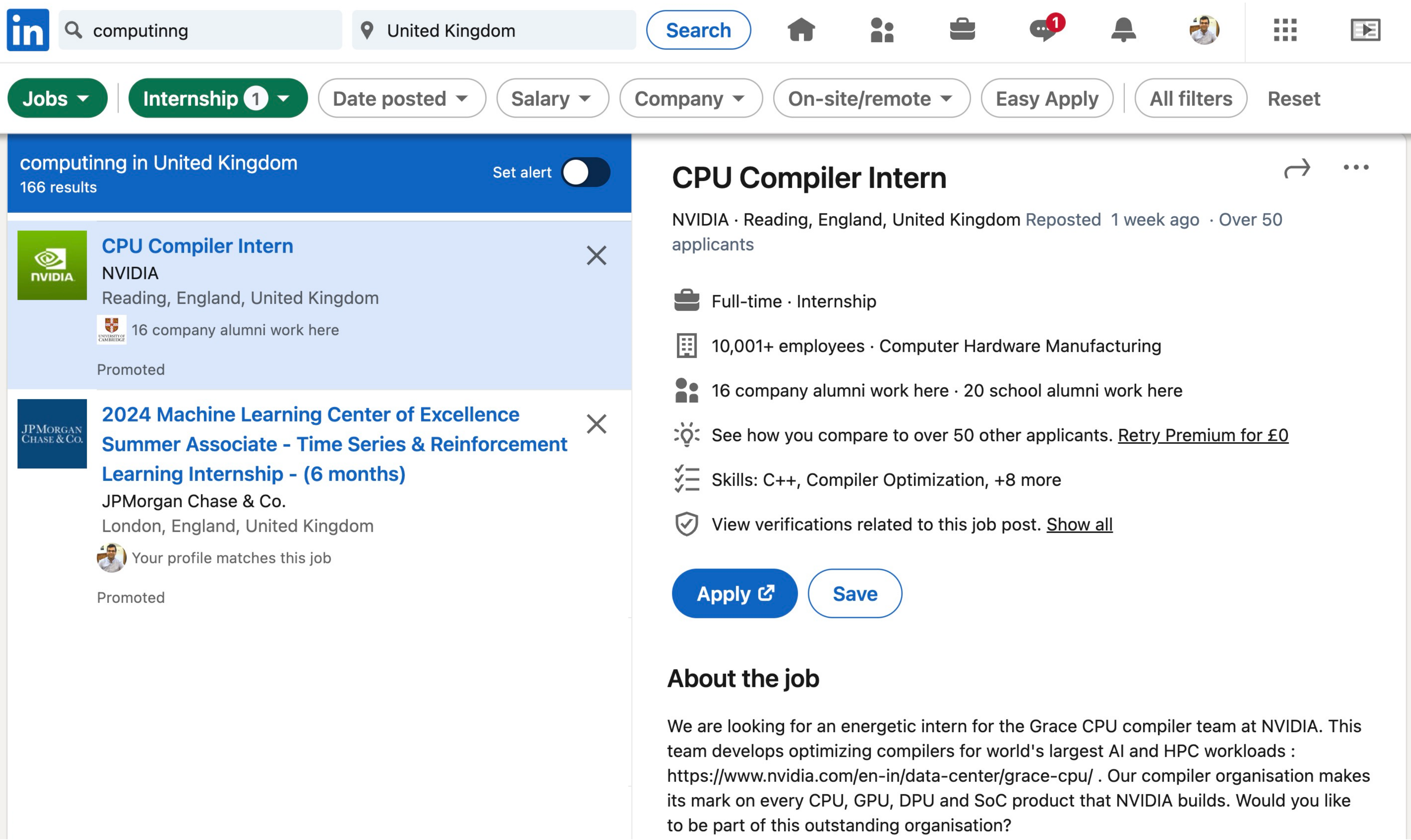


LinkedIn

Advertised Graduate Schemes, Roles & Internships


computinng
United Kingdom
Search
1
Jobs
Internship 1
Date posted
Salary
Company
On-site/remote
Easy Apply
All filters
Reset
Set alert

computinng in United Kingdom
166 results

CPU Compiler Intern
NVIDIA
Reading, England, United Kingdom
16 company alumni work here
Promoted

2024 Machine Learning Center of Excellence Summer Associate - Time Series & Reinforcement Learning Internship - (6 months)
JPMorgan Chase & Co.
London, England, United Kingdom
Your profile matches this job
Promoted

CPU Compiler Intern

NVIDIA · Reading, England, United Kingdom Reposted 1 week ago · Over 50 applicants

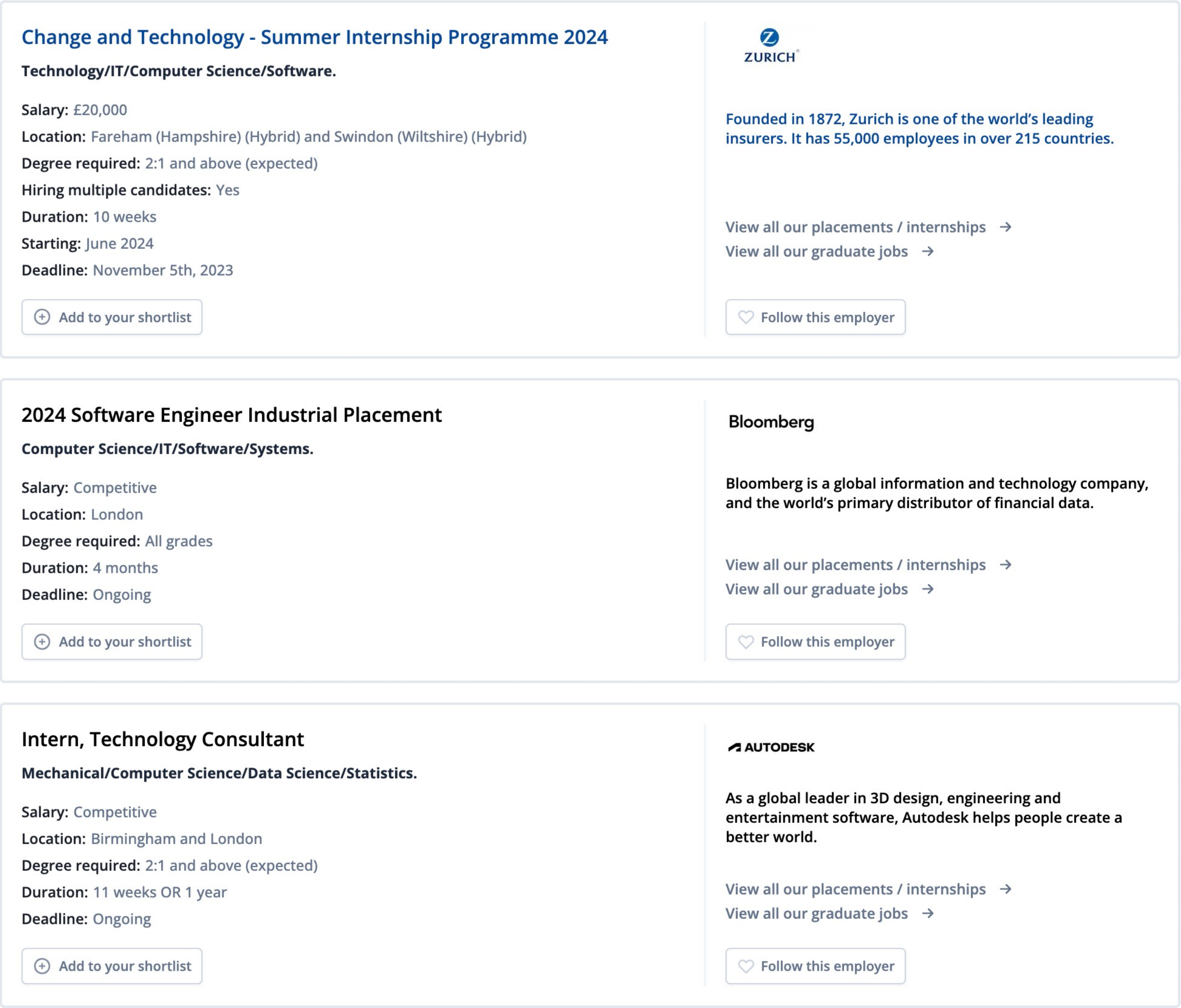
- Full-time · Internship
- 10,001+ employees · Computer Hardware Manufacturing
- 16 company alumni work here · 20 school alumni work here
- See how you compare to over 50 other applicants. Retry Premium for £0
- Skills: C++, Compiler Optimization, +8 more
- View verifications related to this job post. Show all

About the job

We are looking for an energetic intern for the Grace CPU compiler team at NVIDIA. This team develops optimizing compilers for world's largest AI and HPC workloads : https://www.nvidia.com/en-in/data-center/grace-cpu/ . Our compiler organisation makes its mark on every CPU, GPU, DPU and SoC product that NVIDIA builds. Would you like to be part of this outstanding organisation?

LinkedIn

Gradcracker



Change and Technology - Summer Internship Programme 2024

Technology/IT/Computer Science/Software.

Salary: £20,000

Location: Fareham (Hampshire) (Hybrid) and Swindon (Wiltshire) (Hybrid)

Degree required: 2:1 and above (expected)

Hiring multiple candidates: Yes

Duration: 10 weeks

Starting: June 2024

Deadline: November 5th, 2023

⊕ Add to your shortlist
ZURICH

Founded in 1872, Zurich is one of the world's leading insurers. It has 55,000 employees in over 215 countries.

View all our placements / internships →
View all our graduate jobs →
♡ Follow this employer

2024 Software Engineer Industrial Placement

Computer Science/IT/Software/Systems.

Salary: Competitive

Location: London

Degree required: All grades

Duration: 4 months

Deadline: Ongoing

⊕ Add to your shortlist
Bloomberg

Bloomberg is a global information and technology company, and the world's primary distributor of financial data.

View all our placements / internships →
View all our graduate jobs →
♡ Follow this employer

Intern, Technology Consultant

Mechanical/Computer Science/Data Science/Statistics.

Salary: Competitive

Location: Birmingham and London

Degree required: 2:1 and above (expected)

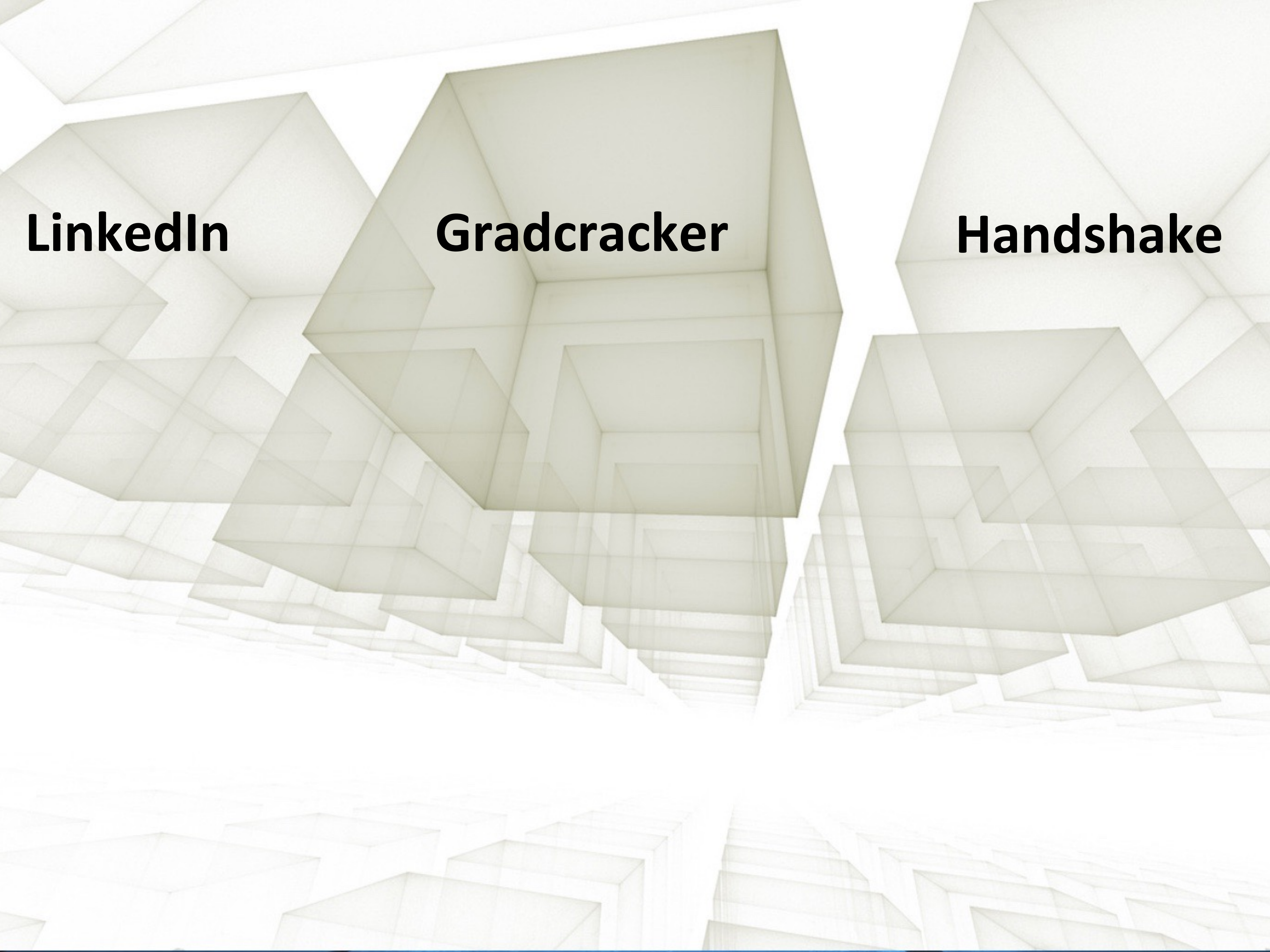
Duration: 11 weeks OR 1 year

Deadline: Ongoing

⊕ Add to your shortlist
AUTODESK

As a global leader in 3D design, engineering and entertainment software, Autodesk helps people create a better world.

View all our placements / internships →
View all our graduate jobs →
♡ Follow this employer

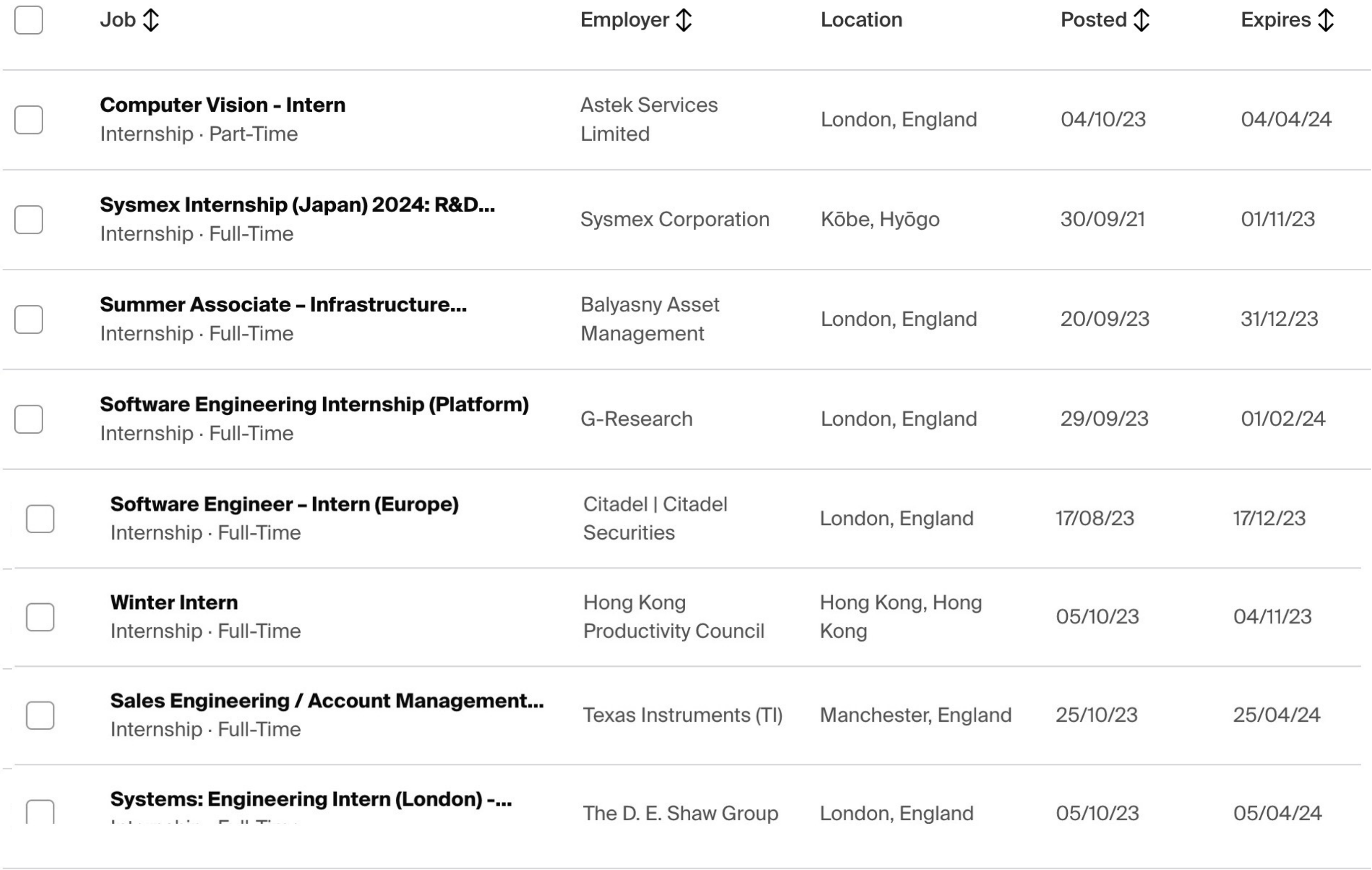


LinkedIn

Gradcracker

Handshake

cam.joinhandshake.co.uk



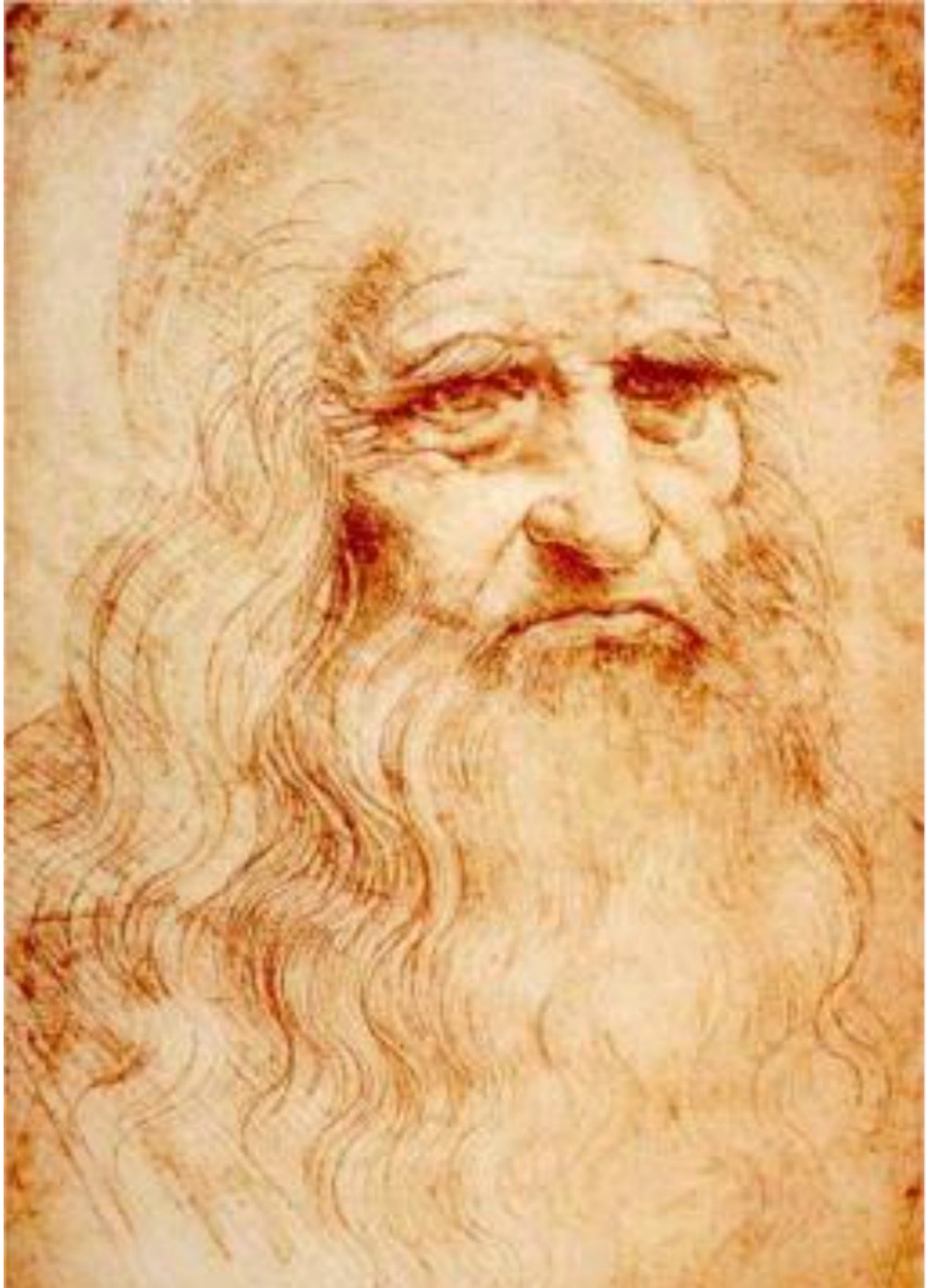
☐	Job ↕	Employer ↕	Location	Posted ↕	Expires ↕
☐	**Computer Vision - Intern** Internship · Part-Time	Astek Services Limited	London, England	04/10/23	04/04/24
☐	**Sysmex Internship (Japan) 2024: R&D...** Internship · Full-Time	Sysmex Corporation	Kōbe, Hyōgo	30/09/21	01/11/23
☐	**Summer Associate – Infrastructure...** Internship · Full-Time	Balyasny Asset Management	London, England	20/09/23	31/12/23
☐	**Software Engineering Internship (Platform)** Internship · Full-Time	G-Research	London, England	29/09/23	01/02/24
☐	**Software Engineer – Intern (Europe)** Internship · Full-Time	Citadel | Citadel Securities	London, England	17/08/23	17/12/23
☐	**Winter Intern** Internship · Full-Time	Hong Kong Productivity Council	Hong Kong, Hong Kong	05/10/23	04/11/23
☐	**Sales Engineering / Account Management...** Internship · Full-Time	Texas Instruments (TI)	Manchester, England	25/10/23	25/04/24
☐	**Systems: Engineering Intern (London) -...**	The D. E. Shaw Group	London, England	05/10/23	05/04/24

Questions?

(before we look at optimising CVs…)

Agree or disagree: “5 seconds is not enough time for a recruiter to accurately judge my CV”

Agree or disagree: “A CV is a place to list all your achievements”



+ 1

Havendo Signor mio Illustrissimo visto et considerato horamai ad sufficientia le prove di tutti quelli che si
reputono maestri et compositori de instrumenti bellici: et che le inventione et operatione di dicti
instrumenti non sono niente alieni dal comune uso: mi exforzerò non derogando a nessuno altro
farmi intender da Vostra Excellentia: aprendo a quella li secreti mei: et appresso offerendoli ad ogni suo piacimento
in tempi opportuni operare cum effecto circa tutte quelle cose che sub brevità in parte saranno qui di sotto
notate ~~et ancora in molte più secondo le occurrentie de diversi casi etc.~~

1 Ho modi de ponti leggerissimi et forti et acti ad portare facilissimamente: et cum quelli seguire
et alcuna volta ~~secondo le occurrentie~~ fuggire li inimici: et altri securi et inoffensibili da foco
et battaglia: facili et commodi da levare et ponere. Et modi de arder et disfare quelli de l'inimico

2 So in la obsidione de una terra toglier via l'acqua de' fossi: et fare infiniti ponti ghatti et scale
et altri instrumenti pertinenti ad dicta expeditione

3 Item se per altezza de argine o per fortezza de loco et di sito non si potesse in la obsidione de
una terra usare l'officio de le bombarde: ho modi di ruinare omni rocca o altra fortezza
se già non fusse fondata in su el saxo etc.

4 Ho ancora modi de bombarde commodissime et facile ad portare: Et cum quelle buttare minutia
~~a similitudine quasi~~ di tempesta: et cum el fumo di quella dando grande spavento al inimico
cum grave suo danno et confusione etc.

9 Et quando accadesse essere in mare ho modi de molti instrumenti actissimi da offendere et defendere:
et navili che faranno resistentia al trarre de omni grossissima bombarda: et polvere et fumi

11.

“Also I can execute sculpture in marble, bronze and clay. Likewise in painting, I can do everything possible as well as any other”

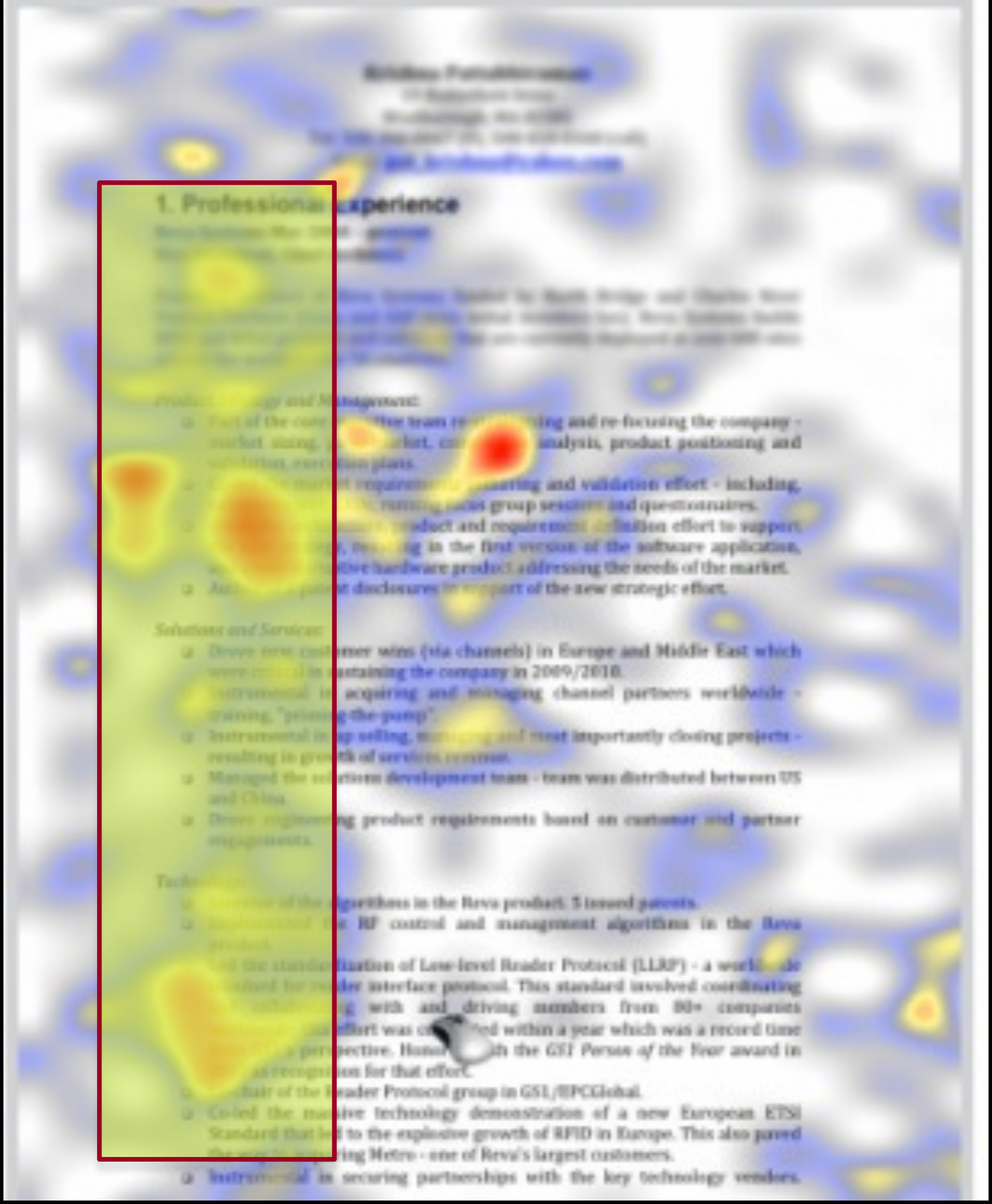
How do we know what recruiters want, today, in 2023?

The job description makes their desires *clear*

We don't need to guess what they want to read about…

My definition of a good CV…

Put what the recruiter is looking for… where they’re looking for it



Skill

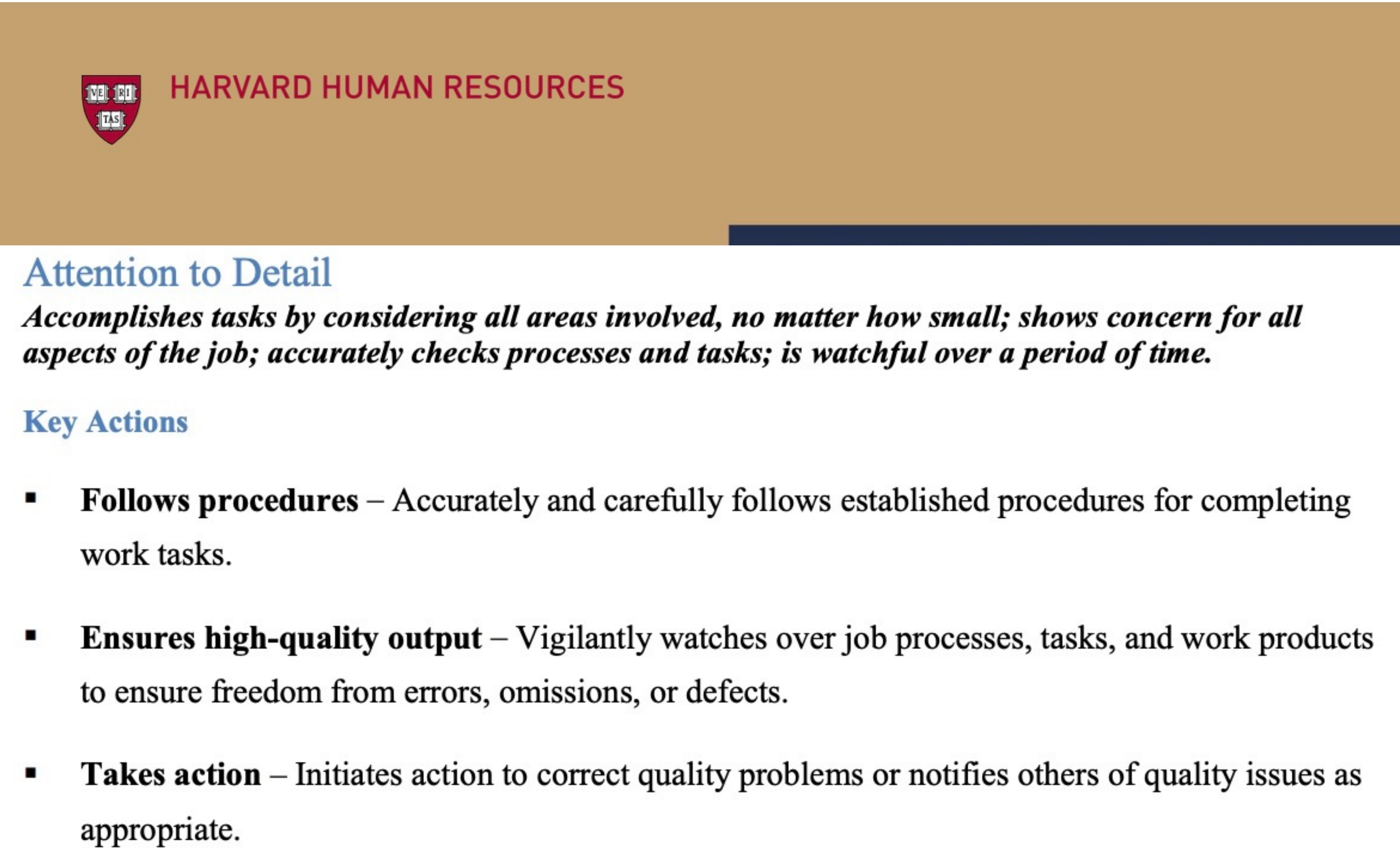
+ Evidence

+ Quantification

Communication skills have been developed by designing open questions in **two** user interaction surveys, to gain qualitative insights into GUI preferences

Coding skills have been developed by writing modular, secure and well-tested code in Python and React, for a project with upwards of **2,000** end users

The Harvard Competency Dictionary…



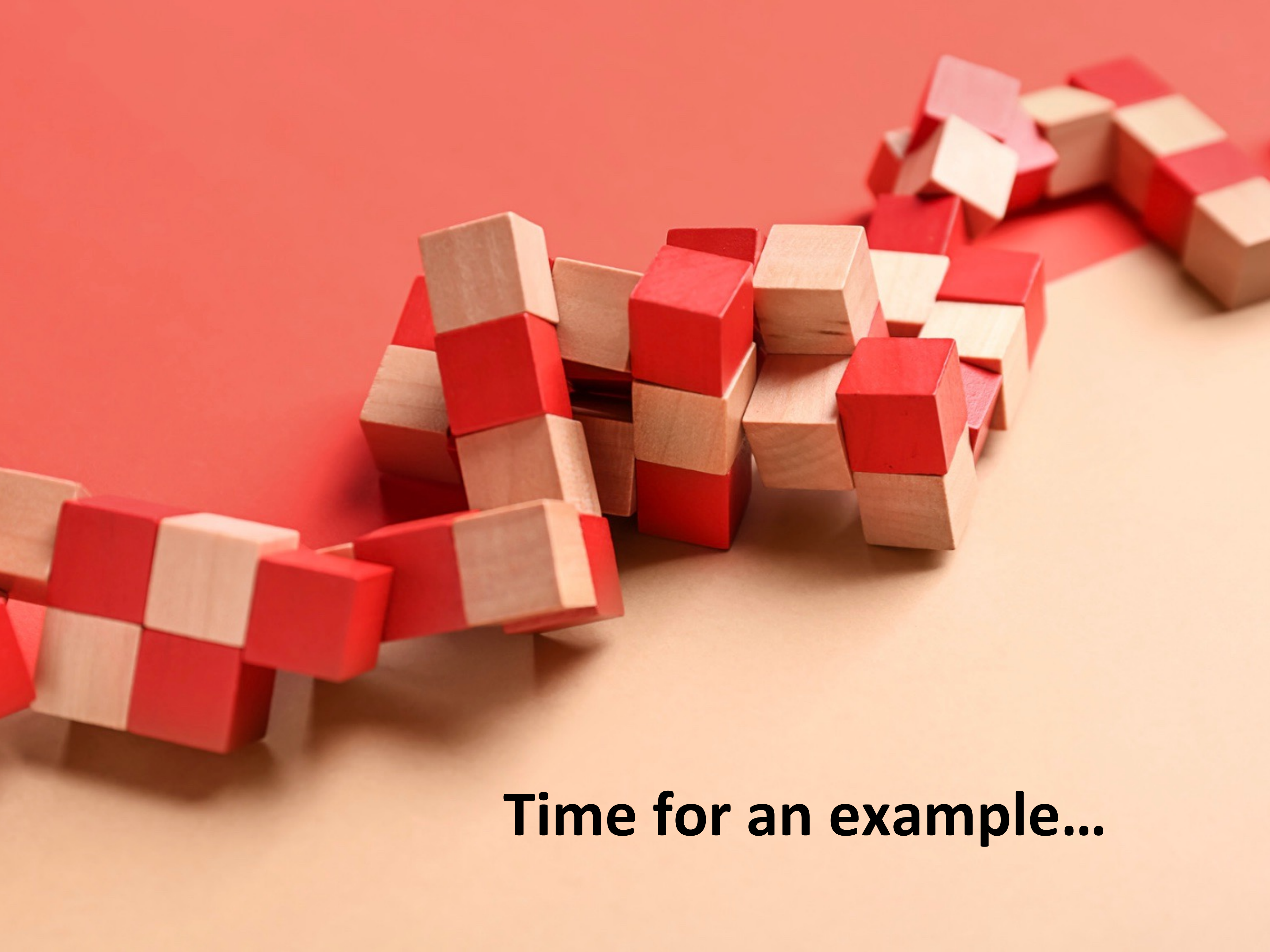
HARVARD HUMAN RESOURCES

Attention to Detail

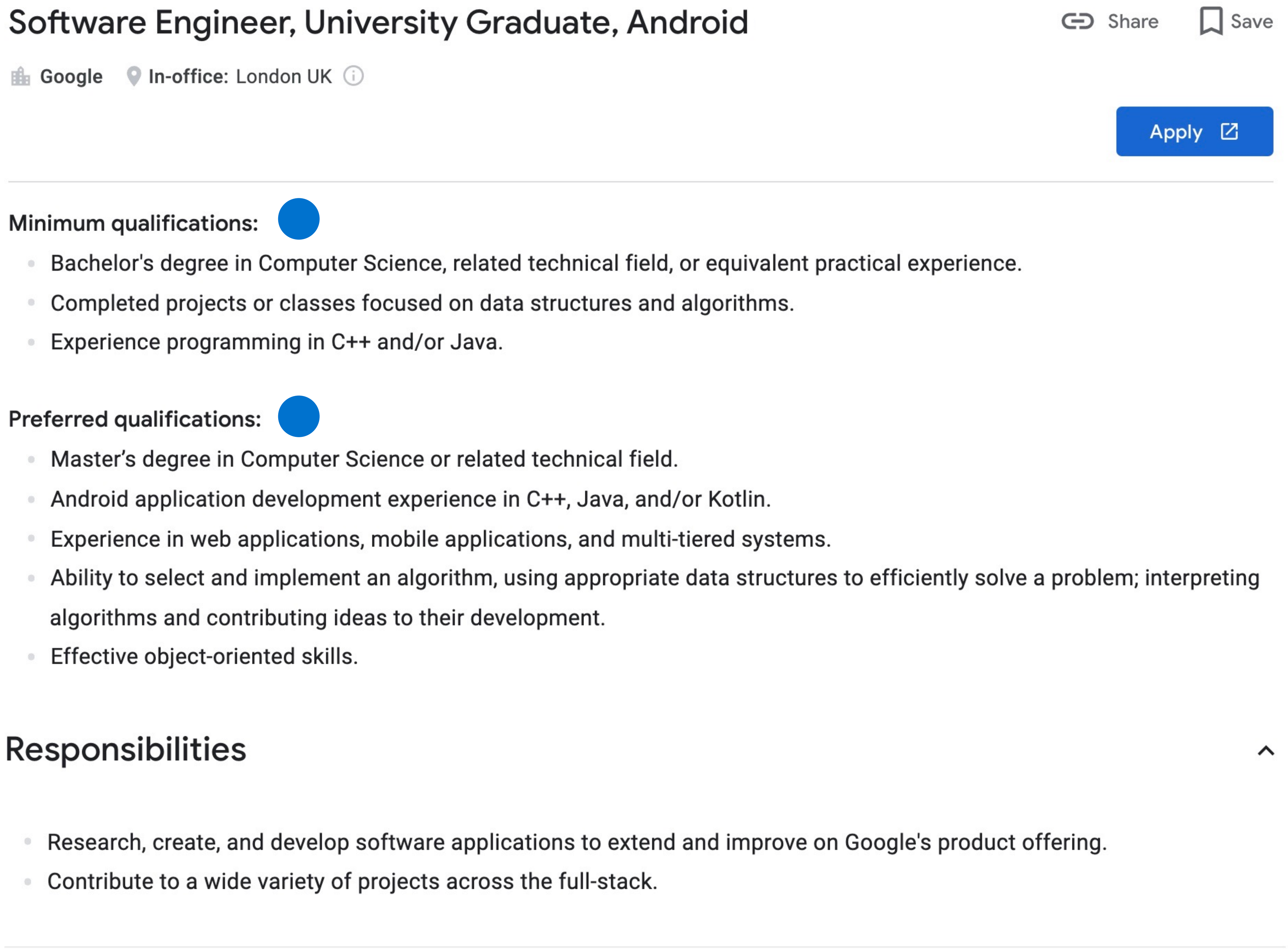
Accomplishes tasks by considering all areas involved, no matter how small; shows concern for all aspects of the job; accurately checks processes and tasks; is watchful over a period of time.

Key Actions

- **Follows procedures** – Accurately and carefully follows established procedures for completing work tasks.
- **Ensures high-quality output** – Vigilantly watches over job processes, tasks, and work products to ensure freedom from errors, omissions, or defects.
- **Takes action** – Initiates action to correct quality problems or notifies others of quality issues as appropriate.



Time for an example…



Software Engineer, University Graduate, Android

Google **In-office:** London UK

Minimum qualifications:

- Bachelor's degree in Computer Science, related technical field, or equivalent practical experience.
- Completed projects or classes focused on data structures and algorithms.
- Experience programming in C++ and/or Java.

Preferred qualifications:

- Master’s degree in Computer Science or related technical field.
- Android application development experience in C++, Java, and/or Kotlin.
- Experience in web applications, mobile applications, and multi-tiered systems.
- Ability to select and implement an algorithm, using appropriate data structures to efficiently solve a problem; interpreting algorithms and contributing ideas to their development.
- Effective object-oriented skills.

Responsibilities

- Research, create, and develop software applications to extend and improve on Google's product offering.
- Contribute to a wide variety of projects across the full-stack.

It’s over to you…

Questions & comments?

you are not alone

Book 1-1 appointments to review your CVs/cover letters/applications:

https://www.careers.cam.ac.uk/appointments

2 WEIRD CV TRUTHS
4:00
CV TRAPS: I'D AVOID
5:52
PERFECT CV EVERY TIME
6:56

2 Weird CV Truths *

At the University of C
Consultant is to revi

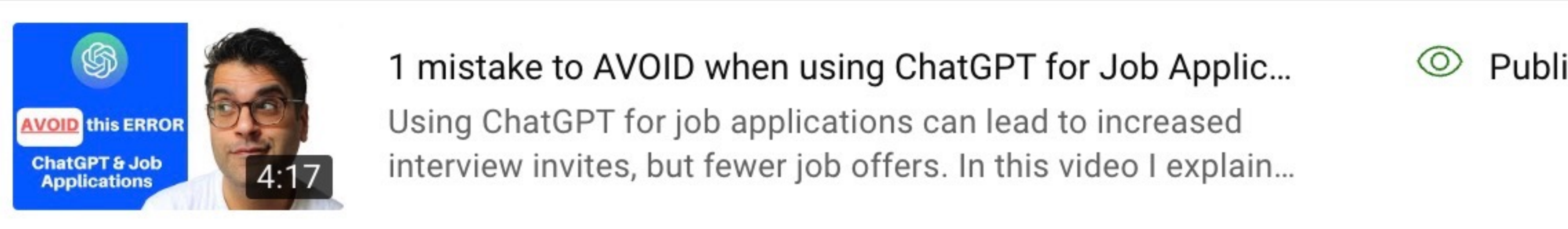
4 things I NEVER in

There are 4 things I
professional Careers

Write the PERFECT

I work at Cambridge
reviewed over 1,000

If you want a copy of the slides... send me an email
rss72@cam.ac.uk


AVOID this ERROR
ChatGPT & Job Applications
4:17
Publi

1 mistake to AVOID when using ChatGPT for Job Applic...

Using ChatGPT for job applications can lead to increased interview invites, but fewer job offers. In this video I explain...