

Super-Curricular Guide: Computing



What Does UCAS Say...?

Entry Requirements:

A levels – To get on to a computer science related degree you will usually require at least two A levels or equivalent. Entry requirements range from CDD to AAA, with the universities and colleges most commonly asking for BBC. In addition to the different A level requirements above, you will also need at least five GCSEs (A-C) including science, English, and maths. Some universities require a maths GCSE for computer science degrees.

Vocational courses – Other Level 3/Level 6 qualifications (e.g. Pearson BTEC Level 3 National Extended Diploma in Computing, SVQ IT Professionals (SCQF Level 6)) may be accepted as an alternative.

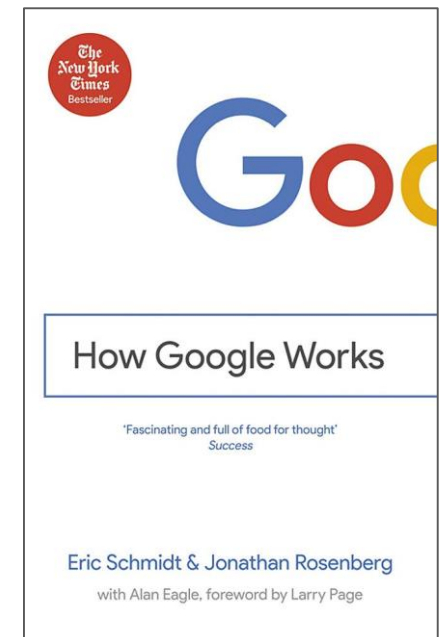
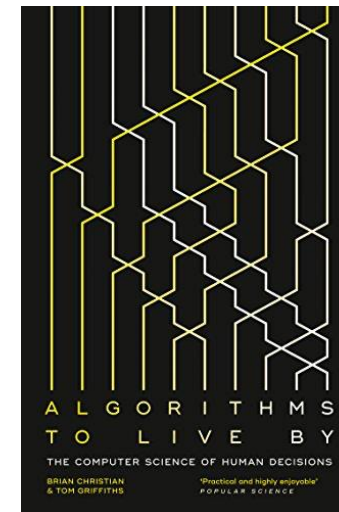
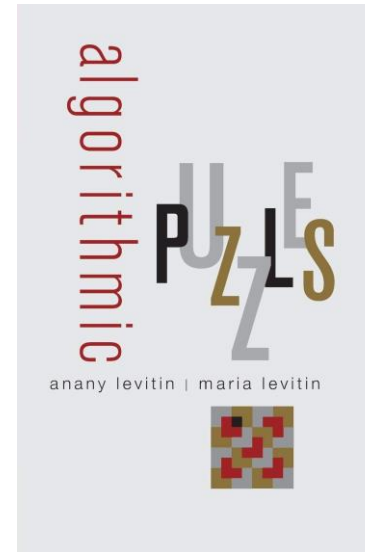
Specific entry requirements vary considerably, depending on the focus of the course. For example, a very theoretical course may require A level mathematics, whereas Business IT programmes would probably not ask for any science background beyond GCSE. Few courses specify A level Computing or equivalent.’

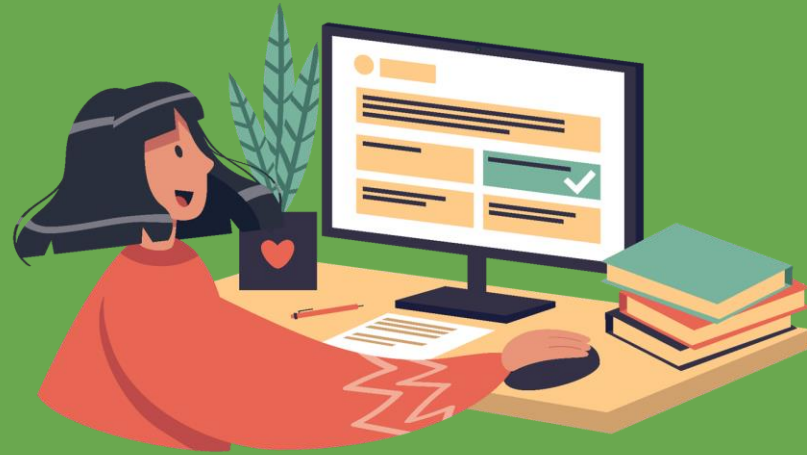
Institute of Analysts and Programmers





Read!



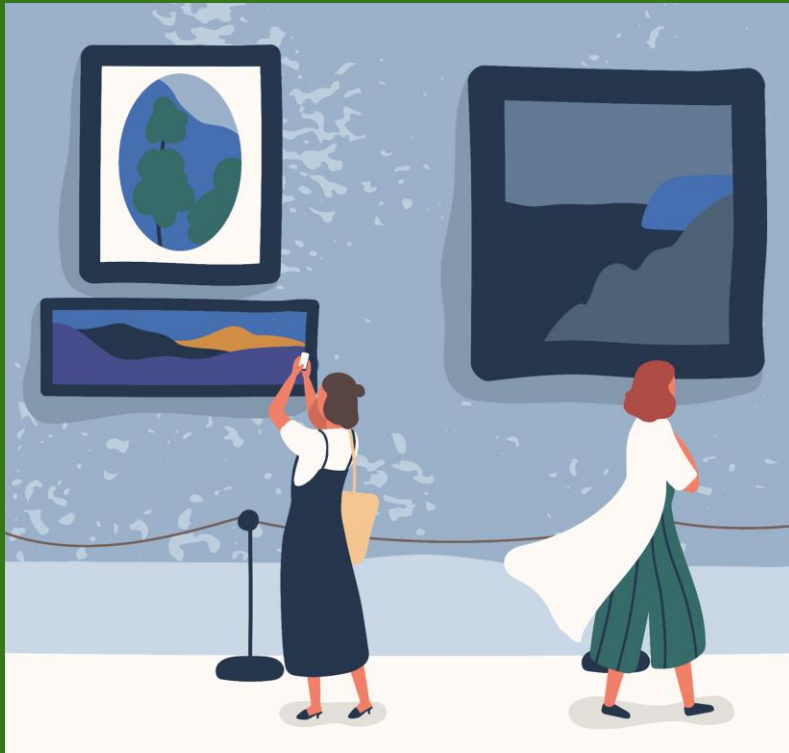


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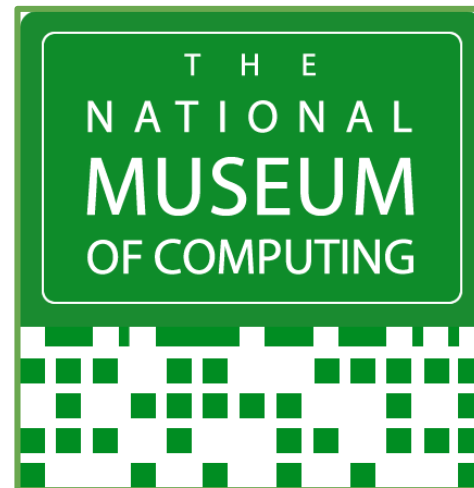
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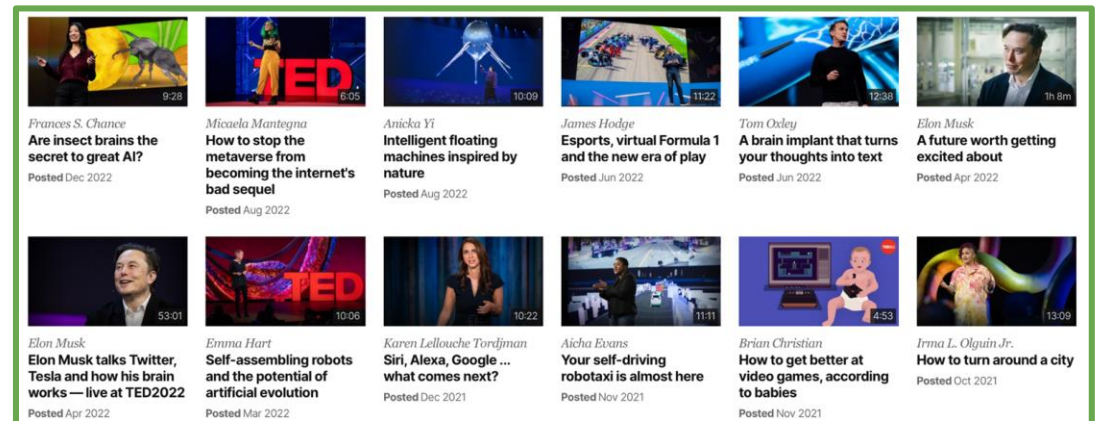
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Listen!

Computer Science



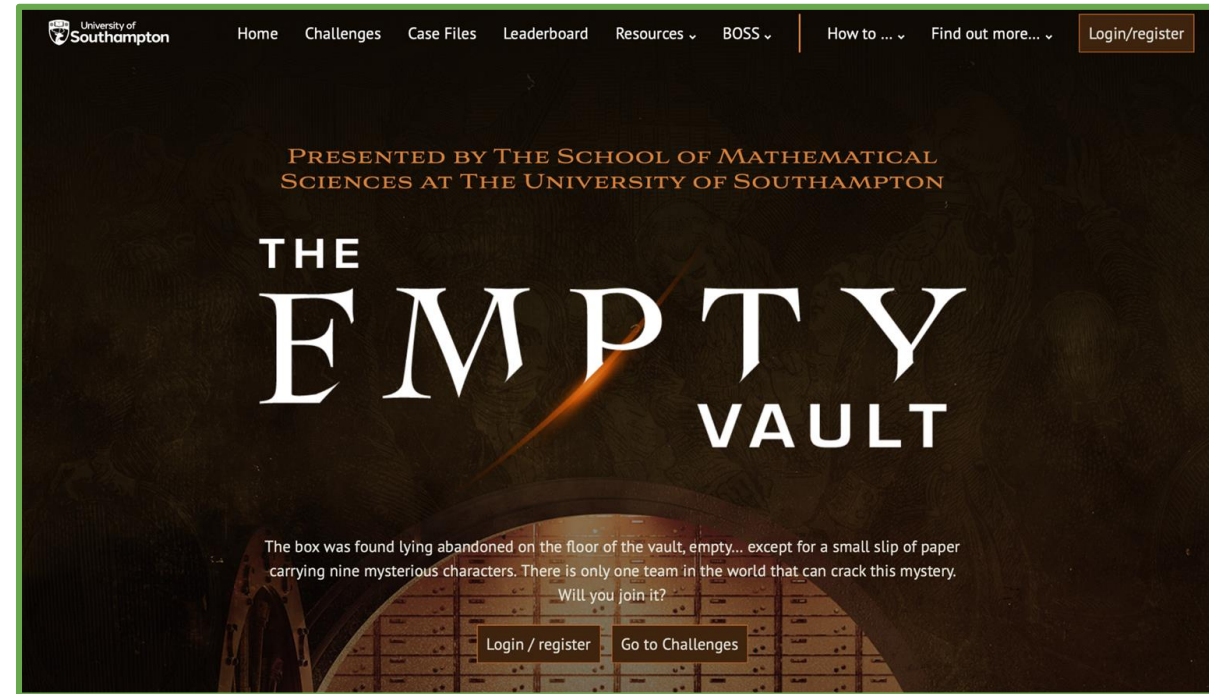
This series is host to episodes created by the Department of Computer Science, University of Oxford, one of the longest-established Computer Science departments in the country.

The series reflects this department's world-class research and teaching by providing talks that encompass topics such as computational biology, quantum computing, computational linguistics, information systems, software verification, and software engineering.

<https://podcasts.ox.ac.uk/series/computer-science>



<https://www.cbc.ca/radio/spark>



About Bebras

The Bebras Computing Challenge introduces computational thinking to students. It is organized in over 50 countries and designed to get students all over the world excited about computing. Each participant answer questions that focus on computational and logical thinking. It is completed online in your own school.

What teachers say about the challenge:

"I just want to say how much the children are enjoying this competition. It is the first year we have entered, and I have students aged 8 to 11 participating in my Computing lessons, with some of our older students also taking on the challenges. It is really helping to challenge their thinking, and they are showing great determination to try and complete each task! Also fantastic to find something that works on our iPads, as most puzzles of this kind are flash based."

"Our students completed the challenge this morning, I just wanted to say thank you for running this. It's a brilliant idea!"



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About Project Euler

What is Project Euler?

Project Euler is a series of challenging mathematical/computer programming problems that will require more than just mathematical insights to solve. Although mathematics will help you arrive at elegant and efficient methods, the use of a computer and programming skills will be required to solve most problems.

The motivation for starting Project Euler, and its continuation, is to provide a platform for the inquiring mind to delve into unfamiliar areas and learn new concepts in a fun and recreational context.

Who are the problems aimed at?

The intended audience include students for whom the basic curriculum is not feeding their hunger to learn, adults whose background was not primarily mathematics but had an interest in things mathematical, and professionals who want to keep their problem solving and mathematics on the cutting edge.

Currently we have 1038815 registered members who have solved at least one problem, representing 220 locations throughout the world, and collectively using 108 different programming languages to solve the problems.



<https://www.gchq-careers.co.uk/index.html>

We're the Government Communications Headquarters – otherwise known as GCHQ. Tasked by UK government, we're a world-leading intelligence, cyber and security agency. Our mission is to keep the UK and its citizens safe. We're really proud of our purpose - and our people. Join us to be a part of it all.

I'm starting my career

I'm developing my career

Keep a Super-Curricular Activities Record for Personal Statement and Interviews

- What did you do?
- What was interesting, significant and relevant?
- How was your perception or view of the subject matter changed?
- What did you agree or disagree with and why?
- What further questions were raised?
- What could you do to explore these questions further?
- What skills or understanding were developed?

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