A Career in Technology?

Do you have to be a geek to work in technology?

No! (But geeks can have successful technology careers too.)

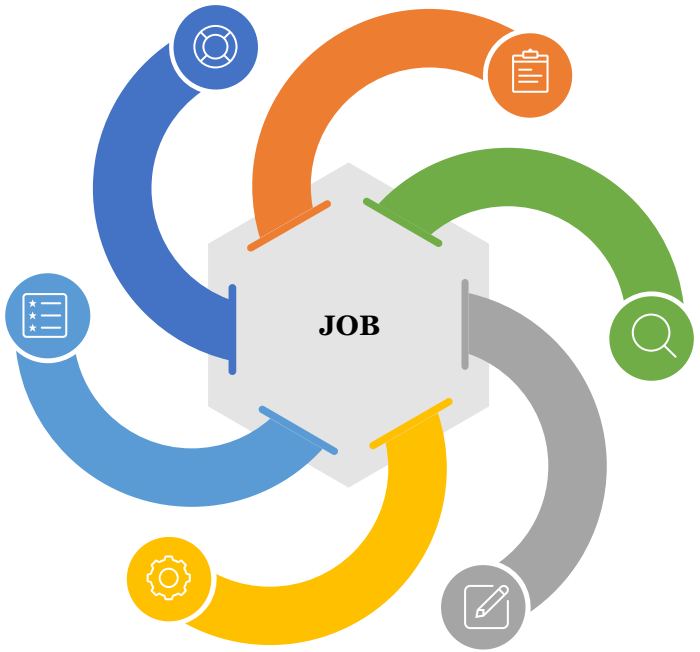
Isn’t it all about computer programming?

No – there are many different technology careers.

Games Industry

Cyber Security

Social Media



Tech Entrepreneur

Software Engineering

Artificial Intelligence & Robots

We’re going to take a look at some different technology careers and some of the people who work in technology. We’ll discover all the different career paths they have followed and learn their advice to anyone starting out and their thoughts about the industry.

Jo Twist

Michael Taylor

Simon Peyton-Jones

Andy Ayim

Sue Black

Catherine Breslin

Computer Games

Do you enjoy computer games? Have you ever thought about all the different jobs involved in making these games? People working in the games industry:

- Invent new games
- Design the screens
- Develop the software
- Test the games to make sure they work correctly
- Market and sell games
- and much more ……

Jo Twist OBE
Chief Executive Officer of UK Interactive Entertainment; the UK games trade body

Education: University of Edinburgh
MA cultural geography
PhD in online communities

Achievements: Jo commissioned Battlefront II, Nom Nation, International Racing Squirrels.

Career history: Creating live webchats, online news coverage and games at BBC Newsround. Tech journalist for BBCS News Online. Commissioning Director for Education at Channel 4, using games to help teenagers understand real life issues such as citizenship, privacy, surveillance and body image.

Advice: "The games industry is one of the most rewarding careers you can ever have. Depending on what kind of job you want to go into, there are so many roles, you don't necessarily need a computer games degree. You might have one, that's great, but I think it's having this broad curiosity and showing these other softer skills and transferrable skills is really key. If you want to go into a particular technical discipline like art, you need a portfolio. If you want to actually make games; make some games. We have free tools like Unreal Engine and Unity, and there's lots of advice, support and programmes that will help you learn how to make your games."

Jo Twist talks about the games industry
– click below or go to youtube.com/watch?v=u-CMlfRabQ4

Cyber Security

Today we rely so much on our smart phones, tablets and computers that it's really important that we protect them and the information we store on these devices. Some people would say that cyber security is one of society's greatest challenges.

Many people work in cyber security devising ways to defeat spammers, hackers and people who spread fake news. It's a growing field and makes for an exciting and rewarding career.

Dr Michael Taylor

Education: Apprentice at electrical equipment company Square D. Completed his Chartered Engineer training at the Military College of Science at Shrivenham.

Career history: Top secret! Certain areas of Michael's work are still classified as top secret today; Google him – what do you find?

Advice: If you're going into engineering or IT Michael believes you need to demonstrate a sense of social responsibility. The code you write and test must be secure and really meet the requirements of those who are going to use it.

Achievements: Michael developed sensitive systems for the police and central government, including pioneering speech recognition systems for pilots to command their airplanes by voice. Michael says: "The part I played in helping make London a safer place to live is what made my career in IT so meaningful and rewarding."
Michael's passion for using technology to improve the quality of life for disabled people has seen him design and build a digitally controlled e-Trike for the rehabilitation of injured and disabled people.

Michael Taylor talks about the use of technology for the good of all – click below or go to youtube.com/watch?v=d_MWP2n6kS0

Social Media

Organisations employ many people to use social media to communicate with their customers. Jobs in this field include:

- Marketing manager
- Art director
- Copywriter
- Customer service representative
- Graphic designer
- Film and video editor
- Public relations specialist
- Market research analyst
- Data scientist

Sue Black OBE
Professor of Computer Science and Technology Evangelist, Durham University

Education: Sue left school with a few O levels. She returned to college to study maths as a mother of four at the age of 26, progressing to a degree, followed by a PhD in Software Engineering at London Southbank University.

Career history: Senior Research Associate and Honorary Professor at University College London; UK Government Advisor; Founder of #techmums; Tech evangelist and inspirational speaker.

Achievements: Sue believes technology, despite its bad press, is an amazing tool that can help us save the planet and empower people. Through her initiative she aims to create 1 million #techmums by 2020, teaching them how to design apps, code in Python, stay safe online, use social media and office skills.
Sue is a social media convert and has used Twitter to help save Bletchley Park, crowdfund her book about Bletchley, and connect with millions of people.

Advice: Sue believes IT is the best career and that every job now involves technology in some way. She suggests exploring technology in lots of different ways.

Sue Black talks about starting #techmums
– click below or go to youtube.com/watch?v=A6q4T2bslzo

Tech Entrepreneurs

A tech entrepreneur is a person who uses technology to create a business. So if you surf online or use a mobile phone chances are you are using a product or service such as an app, a website, a game or a social network created by a tech entrepreneur.

To become an entrepreneur you will need a business idea you are passionate about, the right education, a business plan, a target market/audience, a good network and you will need to sell your idea and market your business.

Andy Ayim
Managing Director, London Accelerator, Backstage Capital

Education: Brunel University, BSc Hons. Business and Management (Accounting)

Career history: After leaving Ernst & Young's graduate scheme, Andy has focused on venture capitalism for underrepresented groups. He has worked at Elixirr, WorldFirst and Entrepreneur First. He launched Mixtape Madness at university.

Achievements: Mixtape Madness showcases the best of British urban music and Andy has seen it quickly grow to a 7-figure business with over 70,000 subscribers. He is now working towards democratising access to technology and venture capital to develop more representative leadership that reflects society.
Andy is a member of UK Black Tech which aims to build a more inclusive Tech ecosystem and has been recognised by the FT as one of the top 10 BAME in Tech.

Advice: "Try and be self-directed. Be a continuous learner; there are lessons to learn everywhere, especially in failure. Don't be too harsh on yourself when things don't work out. Try and quickly realise and ask 'what did I learn from that experience?', and how can I move more intelligently now that I know that."

Andy Ayim talks about encouraging entrepreneurs from different backgrounds – click below or go to youtube.com/watch?v=uYx_PjOXZuE

Software Engineering

Software engineers are computer science professionals who use engineering principles and programming languages to build software apps, develop computer games and run network control systems.

Over 330,000 software engineers are employed in the UK.

Simon Peyton-Jones
Chair, National Centre for Computing Education;
Principal Researcher at Microsoft Research (Cambridge UK)

Education: Trinity College, University of Cambridge; BSc Electrical Sciences

Career History: Principal Software Engineer at Beale Electronic Systems; Lecturer in Computer Science at University College London; Professor of Computer Science at Glasgow University.

Achievements: Simon is recognised for his research in computer programming. With a group of colleagues he developed the Haskell programming language. At Microsoft Research, Simon works on the development of Microsoft Excel.
He started Computing at Schools, an initiative which has campaigned for changes to the way in which computing is taught at schools.

Advice: "Find something that you really are enthusiastic about. Figure out how to make the world a better place and go and try and do that, because you'll probably be able to. If you're working in less marketable or less commercially viable things, you may have trouble getting somebody to pay you to do the things you really want to do, but in computing, you can probably find a way to get somebody to pay you to do the thing that your heart really leads you to."

Simon Peyton-Jones talks about programming languages
– click below or go to youtube.com/watch?v=PTSE779n0nI

Artificial Intelligence and Robots

Artificial intelligence (AI) is an area of computer science that emphasises the creation of intelligent machines that work and react like humans. Computers with artificial intelligence are designed for activities like speech recognition, learning, planning and problem solving.

Robots are machines capable of carrying out a complex series of actions automatically.

Jobs in this field include: data scientist, machine learning engineer, software developer, robotics scientist and researcher.

Dr Catherine Breslin
Director, Solutions Architect, Cobalt Speech

Education: Trinity College, Oxford: MEng, Engineering and Computer Science, followed by an MPhil and PhD in automatic speech recognition from the University of Cambridge

Career history: Speech Scientist and Manager of Applied Science and Alexa AI, at Amazon. Developing Alexa's speech and implementing it on other Amazon devices. Speech recognition research projects as an Associate at University of Cambridge and Toshiba.

Achievements: Research projects including: using ultrasounds to detect breast cancer, developing a dialogue system between a human and a computer. Catherine worked on Alexa's speech recognition, and how to take it from the Echo speaker to other devices like the Fire TV.

Advice: "There's a lot of interesting things going on in machine learning and artificial intelligence right now. It's a great area to look at because it spans different areas; maths, computing, user interface design, project management; a whole bunch of capabilities which means that you don't have to be somebody who is going to dive right into the algorithms to be able to work on the technology. There's a large choice of different career paths you can take."

Catherine Breslin talks about machine learning and her career – click below or go to youtube.com/watch?v=_fXcpA6Gf3Q

20 Most Popular Jobs in Malaysia

PEKERJAAN	PENGALAMAN (TAHUN)	GAJI MINIMUM SEBULAN (RM)	GAJI MAKSIMUM SEBULAN (RM)
PERKHIDMATAN PERBANKAN DAN KEWANGAN			
Pengurusan Perubahan Projek (Digitalisasi/ Perubahan Organisasi)	10 hingga 15	16,000	20,000
Risiko Operasi (Perbankan Korporat/Perbankan Borong Global/Perbankan Pelaburan)	10 hingga 15	16,000	20,000
KEWANGAN DAN PERAKAUNAN			
Pengurus Kewangan	6 hingga 7	10,000	15,000
Akauntan	4 hingga 5	6,000	7,000
Eksekutif Kewangan	2 hingga 4	3,500	5,500
JUALAN DAN PEMASARAN			
Pengurus Akaun Utama	8	9,000	13,000
Pengurus Jenama	5 hingga 8	8,000	12,000
SUMBER MANUSIA DAN PENTADBIRAN			
Ketua Pembangunan Organisasi	6 hingga 8	12,000	25,000
Ketua Perhubungan Perindustrian	6 hingga 8	10,000	20,000
RANTAIAN BEKALAN DAN LOGISTIK			
Pengurus Rantaian Bekalan	5 hingga 8	8,000	15,000
Pengurus Logistik dan Perancangan	5 hingga 8	7,000	15,000
Penyelaras Logistik	3 hingga 5	2,800	5,500
KEJURUTERAAN			
Jurutera Proses	5 hingga 7	10,000	15,000
Jurutera Mekanikal	5 hingga 7	10,000	15,000
Jurutera Automasi	4	4,500	6,500
TEKNOLOGI MAKLUMAT			
Ketua Pembangun Perisian	5 hingga 8	10,000	17,000
Pengurus Keselamatan Maklumat	5 hingga 8	12,000	18,000
Jurutera Perisian	2 hingga 3	4,500	7,000
Pengaturcara Penganalisis	2	4,500	6,000
Pembangun Full Stack Java	1 hingga 3	4,500	7,000

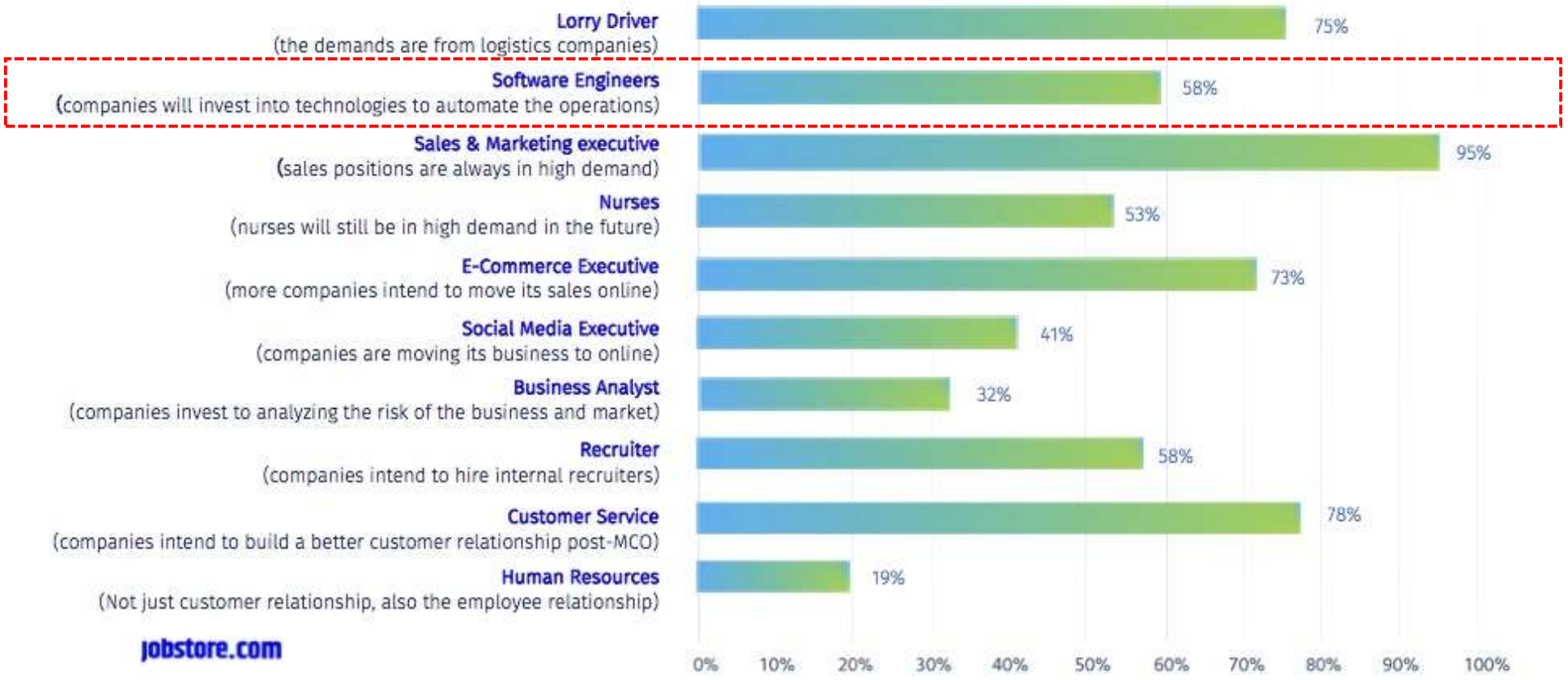
Infografik oleh **GOH PEI YEE**
Kandungan disediakan oleh **ISABELLE LEONG**

Sumber: **Kelly Services**

astro AWANI

astroawani 501awani Astro Awani 501awani t.me/astroawani astroawani.com

10 Most in-demand jobs after the MCO



Most active industries on hiring after the MCO

What Say You?