

A person is silhouetted against a night sky, holding a smartphone up to take a photo of a city's lights. A stylized blue grid of lines, resembling a digital network or a protective shield, is overlaid on the right side of the image, extending from the top right corner towards the center. The background shows a cityscape with lights and a sunset or sunrise sky.

# Introduction to Cybersecurity

Staying safe online

Kunbi Olagunju

# Agenda

- Introduction
- About me
- Introduction to Cybersecurity

# About me

Optional subhead placeholder



## Current role

Cybersecurity Engineering Analyst



## A-Levels

Mathematics, Business Studies and Economics (Physics and Chemistry)



## Undergraduate & Master's Degree

BSc. Information Technology Management for Business (2:1). Graduated in 2018.

MSc. Cybersecurity and Big Data (Distinction). Graduate in 2019.

# The real journey

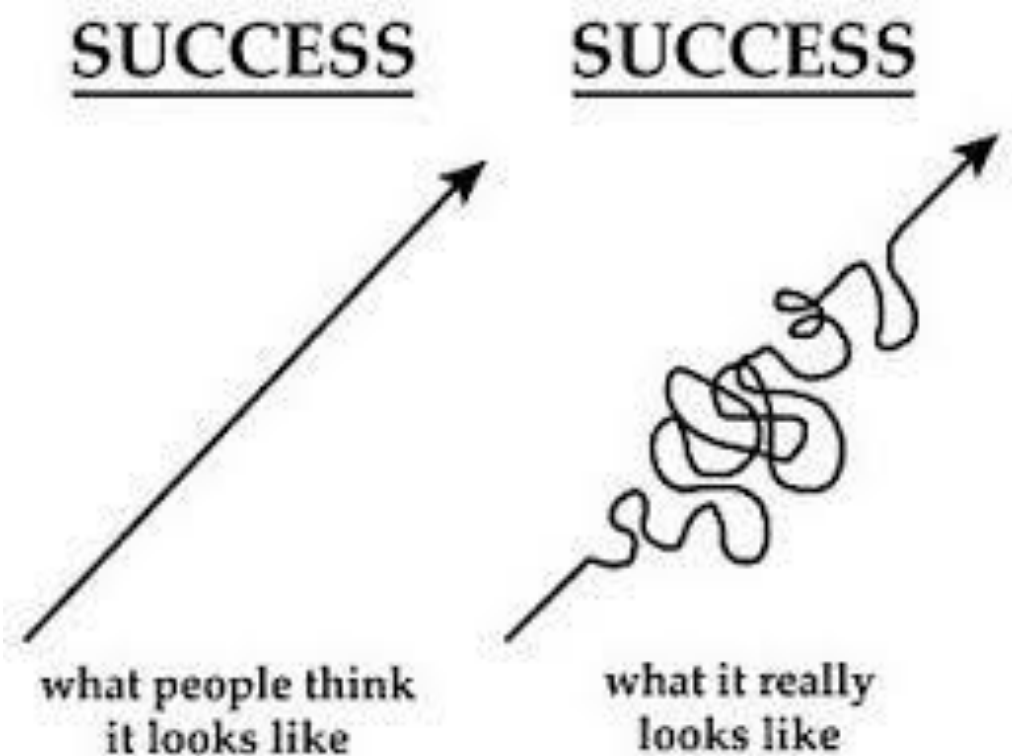
A-Levels: 2012-2014

Undergraduate degree: 2014-2018

- 4 year course with a year in industry.
- Placement year (2016-2017) at BMW during my 3<sup>rd</sup> year. I was part of the IT Service Delivery team (nothing to do with Cybersecurity!!).
- Dissertation: Analysing the Cybersecurity landscape at BMW.

Master's degree: 2018-2019

- Dissertation: Using Recurrent Neural Networks to convert speech to text.



# Cybersecurity



# Introduction to Cybersecurity

- What is Cybersecurity?
- Fundamentals of Cybersecurity
- Why is Cybersecurity important?
- Types of Cybersecurity
- Common types of Cyber threats
- The future of Cybersecurity





# What is cybersecurity?

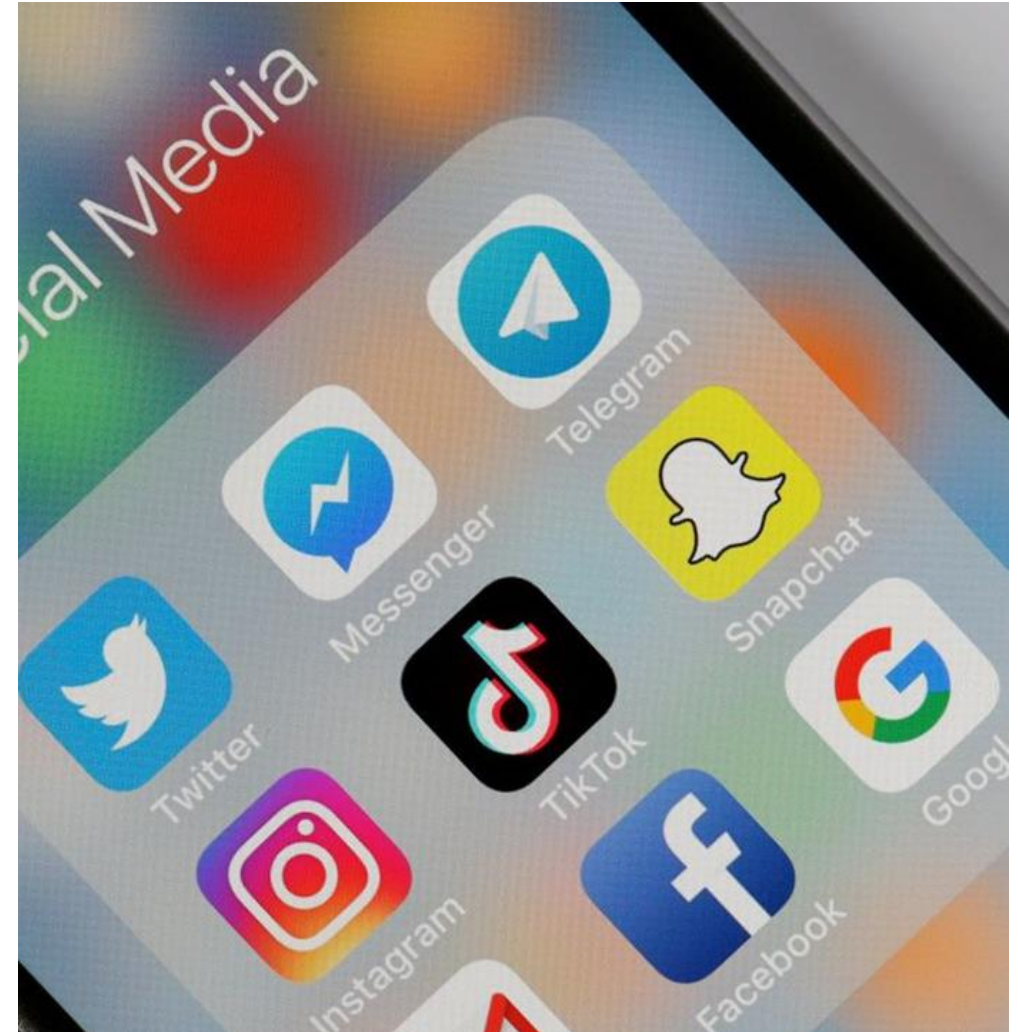
- According to the NCSC, cybersecurity is how individuals and organisations reduce the risk of cyber attack.
- The core function of cyber security is to protect the devices we all use and the services that we access from theft or damage.
- The fundamental principles involves ensuring the confidentiality, integrity and availability of information (CIA triad).



# High risk apps

Social Media is a gold mine for cyber criminals.

- Cyberbullying
- Posting private information
- Cyber predators
- Phishing
- Accidentally downloading malware
- **THE INTERNET NEVER FORGETS!!**





# Common types of cyber threats



# Types of cyber threats



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## Malware

Malicious software such as computer viruses, spyware, Trojan horses, and key loggers.



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## Ransomware

Malware that locks or encrypts data until a ransom is paid



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## Phishing

The practice of obtaining sensitive information (e.g., passwords, credit card information) through a disguised email, phone call, or text message.

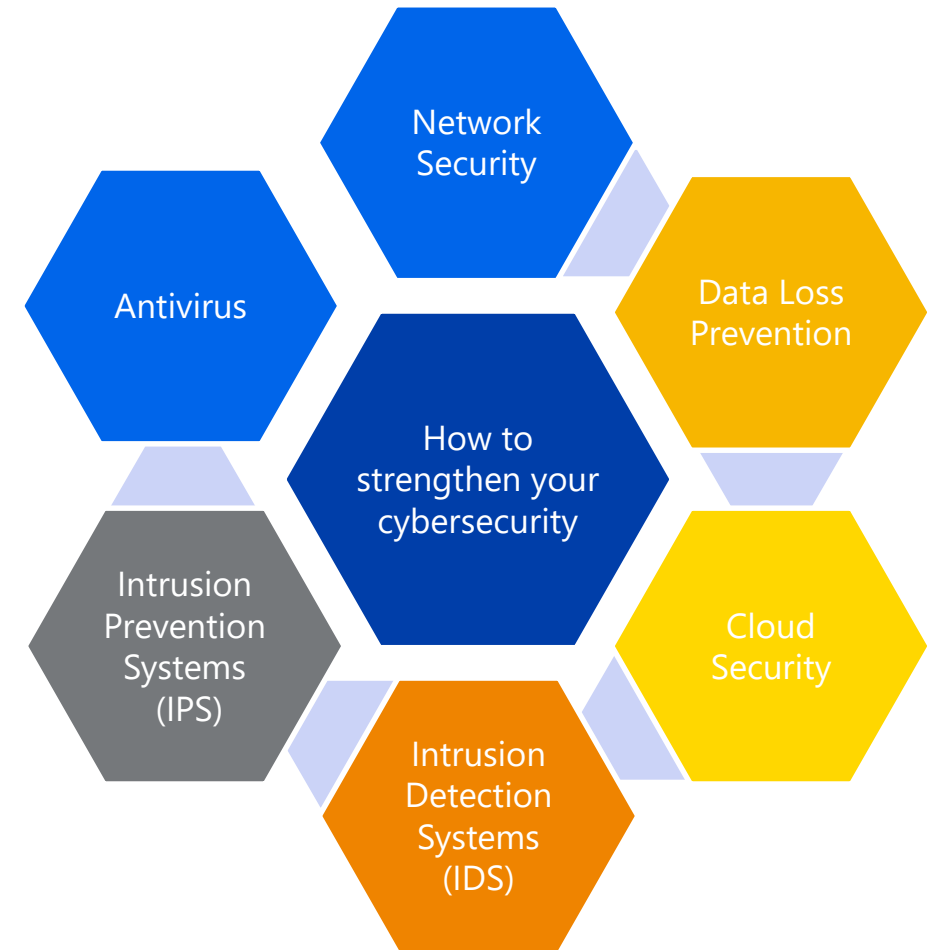


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## Social engineering

The psychological manipulation of individuals to obtain confidential information; often overlaps with phishing

# How to strengthen your cybersecurity





# Capture the flag exercise

## Threat Hunting

- Identify any thing suspicious in the email.



Secure Your WellsFargo Online Key - Message (HTML)

FileMessageTell me what you want to do

DeleteArchive

ReplyReply AllForward

DeleteRespond

Create New

Move


Mark Unread

Categorize

Follow Up

Translate

Zoom



Wells Fargo <inmail-hit-reply@linkedin.com>

James

Sat 10/22

**Secure Your WellsFargo Online Key**

If there are problems with how this message is displayed, click here to view it in a web browser.

Click here to download pictures. To help protect your privacy, Outlook prevented automatic download of some pictures in this message.

Dear James,

We are writing to inform you that the Personal Security Key your for your Wells Fargo Account has expired, as a result, is no longer valid.

This email has been sent to safeguard your Wells Fargo Account against any unauthorized activity. For your online account safety click the link below to reactivate your key:

[http://cabinetkignima.com/Wellsfargo\\_keys\\_account5/page2.html](http://cabinetkignima.com/Wellsfargo_keys_account5/page2.html)

Wells Fargo Support

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You can respond to Wells by replying to this email

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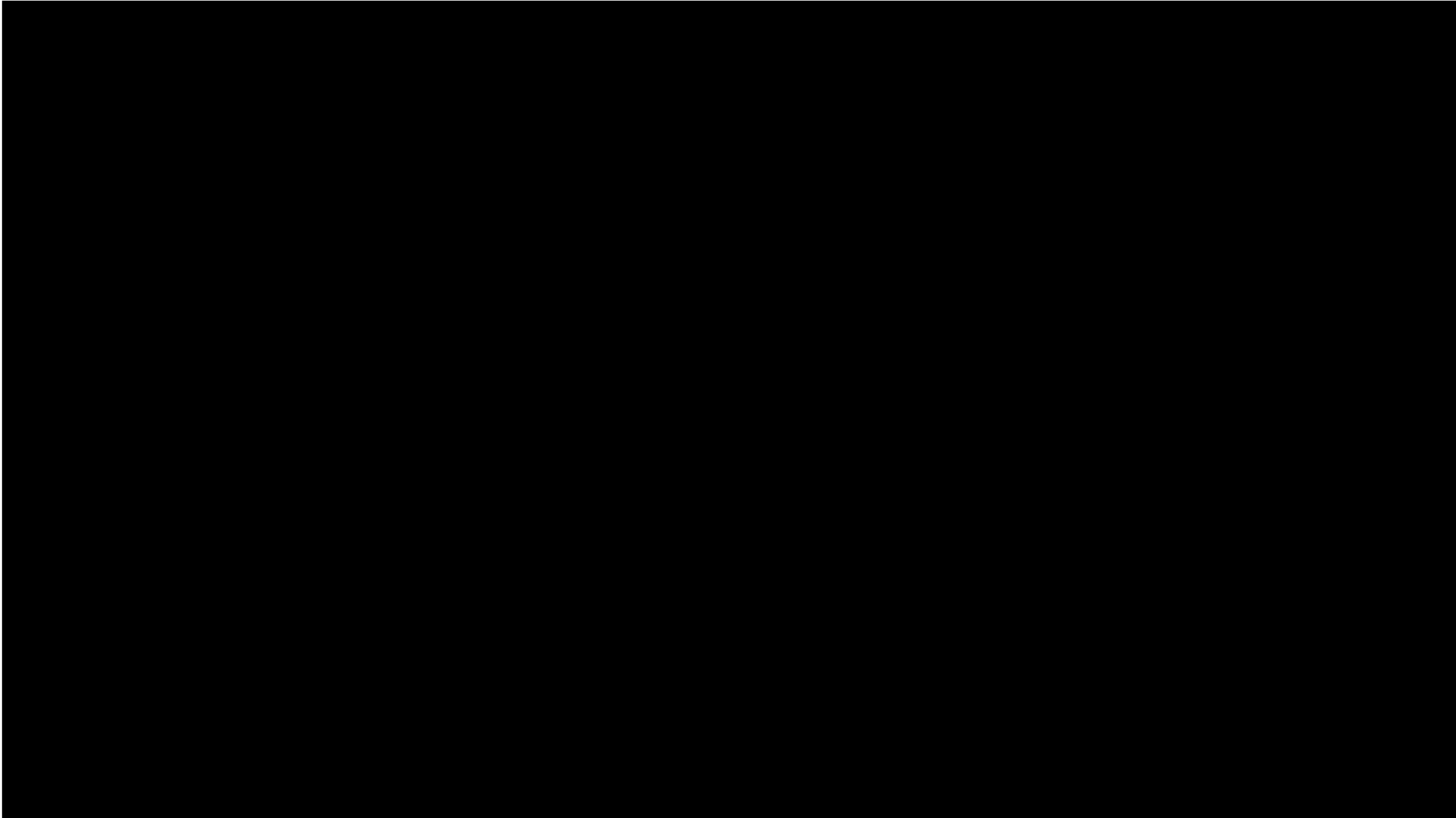


# The future of cybersecurity

## Cybersecurity needs more women.

- According to Forbes 2019, women currently only make up for 20% of the workforce.
- How do we solve this? We need a more diverse workplace - **WE NEED YOU!!**
- There are lots of opportunities available to make you cyber experts.
- For example, CyberFirst girls competition which is organised by the NCSC for girls between the ages of 11-18 years old.





# Q&A

**VISA**

An abstract graphic consisting of numerous thin lines radiating from the bottom right corner towards the top left. The lines are primarily white, with a small cluster of orange lines near the bottom left. The lines vary in length and angle, creating a sense of motion and depth against the solid blue background.