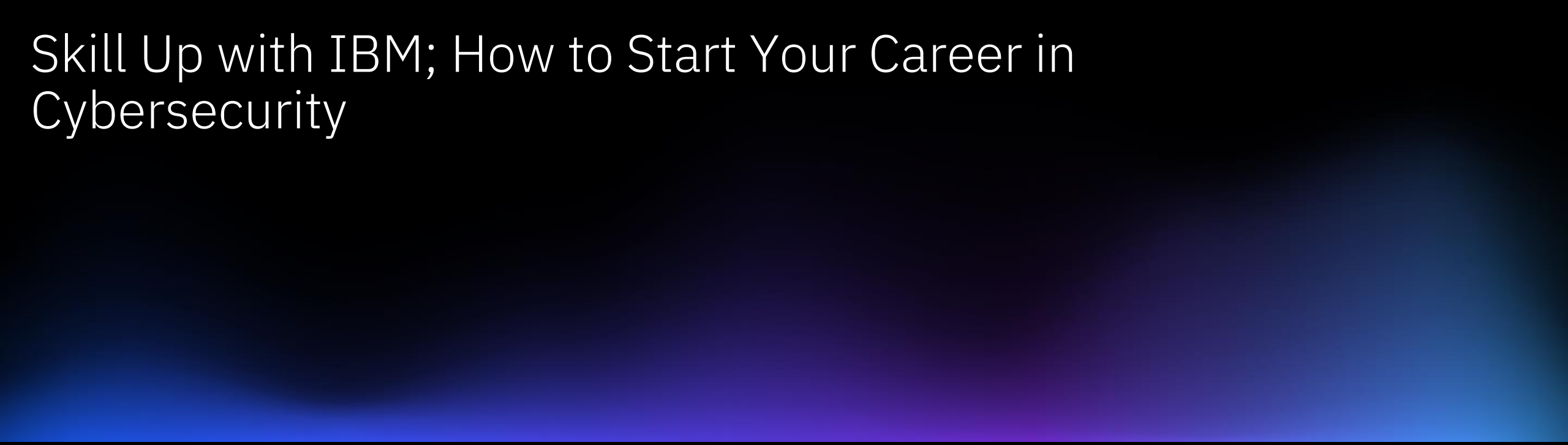
Skill Up with IBM; How to Start Your Career in Cybersecurity



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IBM Security

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Today’s Topics

- Why Cybersecurity? Oscar Calderon
- What will I do all day? Kenneth Gonzalez
- Now What? Coreen Ryskamp

What is Cybersecurity?

- Focus to protect data from cyber attacks and data breaches (Confidentiality, Integrity, Availability)
- In 2020, the average cost of a data breach was **USD 3.86** million globally, and **USD 8.64** million in the United States
- Prevent bad reputation and enable operations (Protect to Enable)

Why Cybersecurity

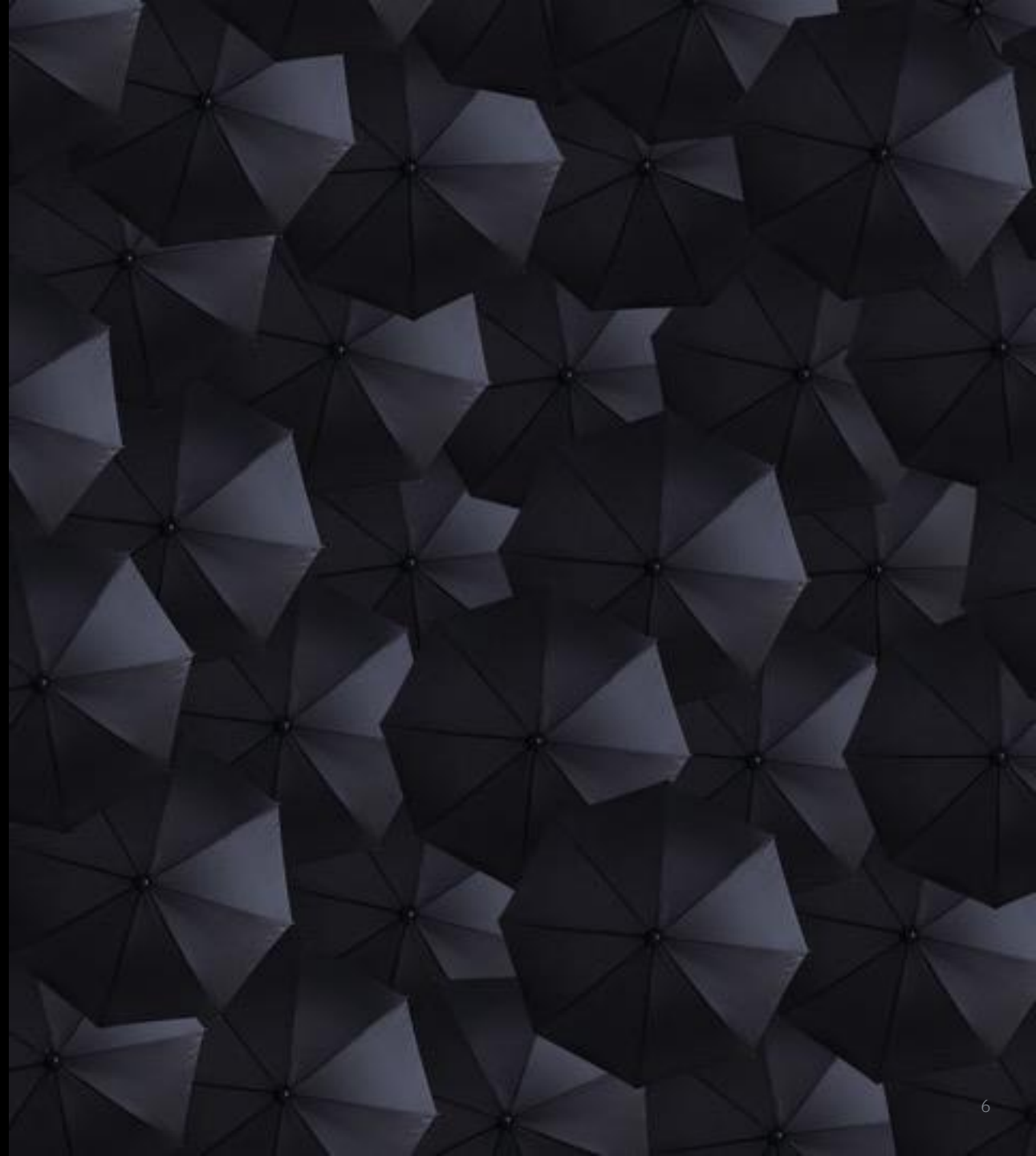
- Everchanging Environment
- 0% Unemployment rate (3,5 Million Openings by 2021)
- Digital Transformation (COVID pushed this forward)
- Jobs with Real Impact

A day in a life

Cybersecurity Analyst / Pentester

1.7m

Average number of outstanding vulnerabilities in client environments



Source: : X-Force Red vulnerability management client statistics

Pentester

What could they do...

Application

- Web
- Mobile
- Terminal
- Thick-client
- Mainframe
- Middleware
- Cloud

Network

- Internal
- External
- Wireless
- Other radio frequencies
- SCADA

Human

- Physical
- Social engineering
- Phishing

Hardware & embedded devices

- IoT
- Wearable tech
- Point-of-sale
- ATMs
- Self-checkout kiosks

Now the Cybersecurity Analyst point of view

Identify threats

Understand the risk and why the threat is relevant

Understand the context of the threat

Escalate and alert

Recommendations and continuum monitoring

Now What?

What do I need?

Don’t be afraid! You need to believe in yourself to make it happen.

Motivation to learn. There’s something new to learn every day.

Develop People Skills. You need more than technical knowledge to be a good Security Specialist.

Technical Skills. Cybersecurity requires knowledge in many technical fields. We must know a little about everything

People Skills

- Problem Solving, Critical Thinking.
- Communication Skills.
- Be able to work with minimum supervision.
- Time Management (SLAs, SLOs)
- Standards and methodologies:
  - Agile
  - Scrum
  - ITIL

Technical Skills

- Computer Networks.
- Linux Operating Systems.
- Windows Operating Systems.
- Programming and Software Development.
- Analysis of payloads and events.

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Cybersecurity Analyst
PROFESSIONAL CERTIFICATE
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Common Cybersecurity Roles

- Security Analyst
- Pentester
- Threat Intelligence Analyst
- Incident Responder
- Cyber Threat Analyst

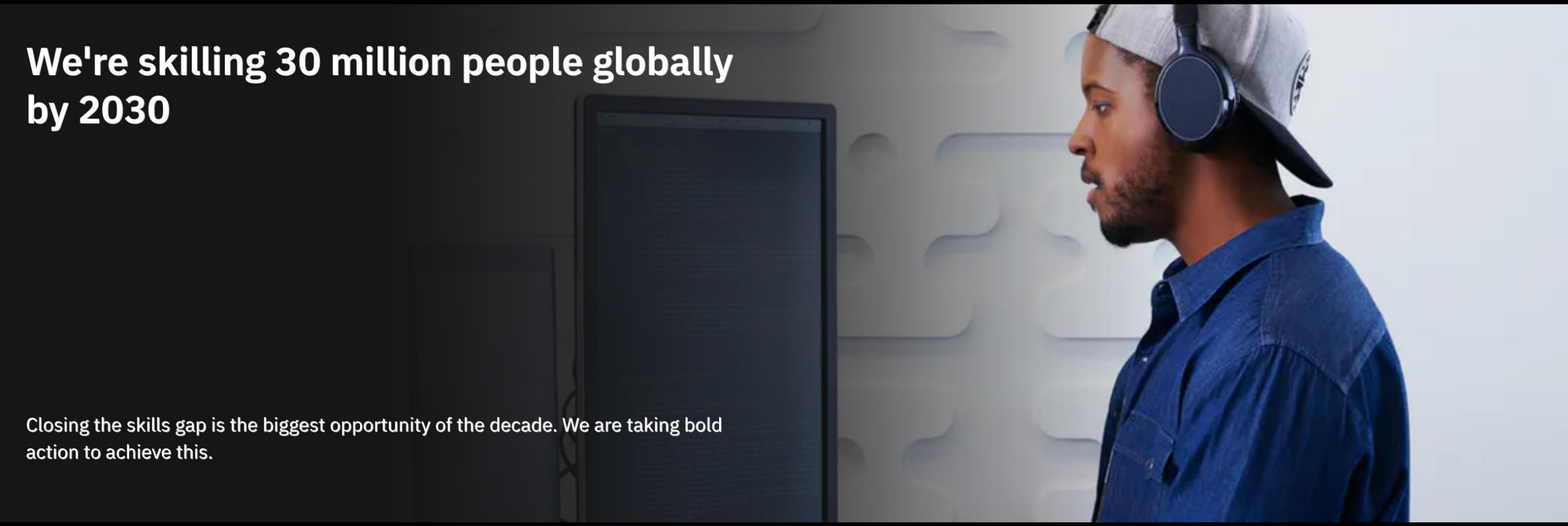
Stay updated!

Besides having technical knowledge, you need to understand what's happening in the Cybersecurity world.

Look for trusted sources:

- National Institute of Standards and Technology (NIST)
- IBM X-Force Exchange
- Cybersecurity & Infrastructure Security Agency

IBM’s Skills Initiative



Resources

- IBM Cybersecurity Analyst Professional Certificate on Coursera (First month Free)
- IBM Cybersecurity Fundamentals on edX
- IBM Skillsbuild
- IBM Security Learning Academy
- IBM Security Community Skills and Learning

Thank you

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