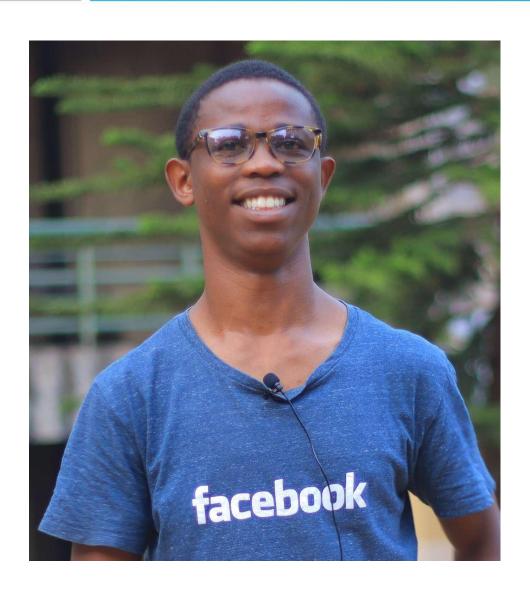# GETTING STARTED IN CYBERSECURITY

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- The world is connected now more than ever, thanks to the various tech advancements, and with this comes threats ranging from simple unauthorized access to information to destructive ones like Distributed Denial of Service and Ransomware attacks

- The need for security therefore rises with the increased adoption of digital systems

- Cybersecurity is the field that is concerned with this - protecting information and the systems that handle that information

> the foundations

- You are best placed to secure something once you have an in-depth understanding of how it operates
- This calls for learning a lot, and going deeper than the average user of these systems
- The fundamentals include:
  - Intermediate computer skills
  - Computer networking
  - Operating Systems
  - Cryptography

  - Databases
  - Scripting : Bash, Python,Powershell
  - Linux : IMPORTANT

> learning platforms

- TryHackMe
  - https://tryhackme.com
  - The best place to get started; has 'gamified' lessons, put together to form learning paths for various specialties
  - Has a free and paid model; the free model is enough to get you going
- HackTheBox
  - https://hackthebox.com
  - Fairly harder: Has intentionally vulnerable machines for you to practice on
  - Has a free and paid model too; the free model is enough for a start too
- It's recommended to first take time learning on TryHackMe before moving on to HackTheBox

> resources I'd recommend

- Books:
  - Cybersecurity Career Guide by Alyssa Miller
  - Foundations of Information Security by Jason Andress
  - Linux Basics for Hackers by OccupyTheWeb
  - Network Basics for Hackers by OccupyTheWeb
  - Getting Started: Becoming a Master Hacker by OccupyTheWeb

- Check out OccupyTheWeb's blog too:
  - https://hackers-arise.com

> certifications

- Good to have in this field, but not necessary
- My recommendations:
  - Beginner:
    - CC (Certified in Cybersecurity by ISC^2)
    - Security+ by Comptia
  - Medium:
    - eJPT (e-LearnSecurity Junior Penetration Tester by INE)
    - CEH (Certified Ethical Hacker by EC-Council)
  - Advanced:
    - OSCP (Offensive Security Certified Professional by Offensive Security)

- **NEVER** stop learning
- Remain **ETHICAL**
- Stay **HEALTHY**
  - A healthy mind and body are the most powerful tools in cybersecurity
- **SHARE** your knowledge with others
  - "Power comes not from knowledge kept, but from knowledge shared" - Bill Gates

- Now let's embark on the journey to make the digital realm safer!