

## **John Ndirangu**

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### **Professional Summary The Strategic Pitch**

Highly driven Business Information Technology student with a unique dual perspective, specializing in cybersecurity, network automation, and techno-business strategy. Proven ability to bridge the gap between technical requirements (Python scripting, network configuration) and business risk management. Seeking an industrial attachment to apply specialized skills in a practical environment and contribute to security and network integrity in a dynamic team focused on innovation and problem-solving.

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### **Education**

**Dedan Kimathi University of Technology (DeKUT)** *Bachelor of Science in Business Information Technology (BBIT)*  
2022 - Present

**Selected Coursework:** Web Development, Computer Networks, Database Management, Software Engineering, **Financial Management, Risk Assessment** emphasizing strategic focus.

**Secondary Education:** Kenya Certificate of Secondary Education (KCSE) (2018-2021) Grade attained: B-.

## Certifications & Advanced Study (Specialized Training)

- **Cyber Shujaa Certification:** Cybersecurity and Emerging Technologies
- **Data Breed Africa Certification:** Data Analytics
- **CCNA 1, 2, 3** Cisco Certified Network Associate: In-depth understanding of routing, switching, IP addressing, and troubleshooting
- **Linux Essentials Certification:** Developed skills in Linux system administration and command-line navigation.
- **IoT (Internet of Things) Certification:** Explored IoT fundamentals, device connectivity, and real-world applications
- **Targeting DevNet Associate:** Self-studying advanced concepts in **network programmability, APIs, and automation** to specialize as a future network engineer.

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## Technical Skills & Core Competencies

Category	Skills & Tools
Programming/Scripting	<b>Python</b> (Core language for AI/NLP project) , Java , JavaScript , C++ , PHP, SQL
Networking/Security	TCP/IP, Routing, Switching , Network Security · Cisco Packet Tracer , Wireshark, Subnetting, Network Automation
Tools & OS	Visual Studio Code , GitHub , Linux
Web Development	HTML, CSS, JavaScript, PHP; creating clean, responsive websites

## Key Projects: Innovation and Strategic Application

### 1. Mindscale: AI-Driven Mental Wellness Assessment Platform (Final Year Project)

- **Specialization:** Leveraged **Python** and **Data Analytics** principles to build a functional platform.
- **Impact:** Created a scalable platform that assesses user mental wellness based on inputs and provides personalized, self-care recommendations, demonstrating the application of technology to critical social challenges.
- **Strategic Focus:** Integrated ethical considerations by implementing robust data privacy measures, highlighting a crucial understanding of data governance and compliance.

### 2. Network Simulation and Optimization Project

- **Objective:** Designed and configured a small network topology using **Cisco Packet Tracer**.
- **Achievement:** Applied subnetting and routing protocols for optimization.
- **BBIT Integration:** Used the simulation to model business continuity challenges, justifying network design choices based on minimizing downtime.

### 3. Personal Portfolio Website

- **Technology:** Designed and developed a responsive portfolio using HTML, CSS, JavaScript, and PHP.
- **Result:** Showcased skills and projects with a user-friendly interface

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## Experience

## **Dedan Kimathi University - Internal IT Attachment**

- Assisted in managing local area networks (LANs), troubleshooting connectivity issues, and ensuring network security.
  - Supported database maintenance tasks such as table creation, record updates, and data backups.
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## **Soft Skills**

- **Strong Communicator, Collaborative Team Player** , and ability to work under tight deadlines.
- **Strategic Communicator:** Capable of translating complex technical issues into clear business risks and opportunities.
- **Resilience:** Demonstrated commitment to continuous learning, overcoming resource constraints through dedicated self-study.