CURRICULUM VITAE:

ALEX MWANGI KIBAYA

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PROFESSIONAL SUMMARY

I am a passionate and results-driven IT professional with a strong foundation in **software development, networking, cybersecurity, data analysis, and IT support**. Currently pursuing a **Bachelor of Science in Information Technology** at the **Technical University of Mombasa**, I have successfully designed and implemented various IT solutions. My expertise spans **full-stack web development, network security, and automation scripting**. With a commitment to continuous learning and innovation, I strive to create efficient, user-friendly, and scalable technology solutions.

EDUCATION

Technical University of Mombasa *(2022 - Present)*

Bachelor of Science in Information Technology
Expected Graduation: April 2026
Relevant Coursework:

- Software Development Lifecycle
- Data Structures and Algorithms
- Database Management Systems
- Computer Networking
- Cybersecurity
- Application Development
- Artificial Intelligence
- Machine Learning

Hemland College *(Jan 2022 - Aug 2022)*

International Computer Driving License (ICDL)
Certificate in ICDL
Relevant Coursework:

- Word Processing
- Database Management
- Slide Presentation
- Spreadsheets
- IT Security
- Online Essentials
- Computer Essentials

Kianyaga High School *(2018 - 2022)*

Kenya Certificate of Secondary Education (KCSE)
Mean Grade: B (Plain)

Kairi Catholic School *(2008 - 2017)*

Kenya Certificate of Primary Education (KCPE)
Marks: 373

TECHNICAL SKILLS

- **Programming Languages:** Python, JavaScript, PHP, SQL, HTML, CSS
- **Web Development:** Full-Stack Development, Responsive Design, API Integration
- **Database Management:** MySQL, PostgreSQL, Firebase
- **Networking & Security:** Network Monitoring, IT Security Fundamentals
- **Version Control:** Git, GitHub
- **Automation & Scripting:** Python, Bash Scripting
- **Cloud Technologies:** AWS, Google Cloud (Basic)
- **Tools & Platforms:** Linux, Windows, Zoho Bookings, Calendly
- **Soft Skills:** Problem-Solving, Teamwork, Communication, Adaptability

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PROJECT EXPERIENCE

1. Local Business Website (Hairdressing Industry)

- Developed a fully functional website for a hairdressing business, enabling the owner to **manage appointments, showcase services, and update content** easily.

- Used **HTML, CSS, JavaScript, PHP, and MySQL** to build a **dynamic and interactive** site.
- Implemented features including:
  - **Booking system** integrated with **Zoho Bookings** and **Calendly**.
  - **Service descriptions and image gallery** to enhance user experience.
  - **Responsive design** for mobile and desktop compatibility.
  - **Simple CMS** to allow the business owner to update content easily.

2. Network Monitoring Script

- Developed a **Python script** to monitor network connectivity and notify users of downtime.
- Features include:
  - **Real-time monitoring** of internet connection status.
  - **Email alerts** sent to notify users when the network is down.
  - **Logging functionality** for troubleshooting.
- **Skills Used:** Python, Ping Commands, Email Alerts

3. Personal Portfolio Website

- Designed and developed a **portfolio website** to showcase my **skills, projects, and achievements** in IT.
- Technologies used: **HTML, CSS, JavaScript**.
- Features include:
  - **Responsive design** ensuring smooth performance on all devices.
  - **Integrated contact form** with email functionality for easy communication.
  - **Project showcase section** to display programming and web development projects.

4. Automated Data Backup System

- Created a **Python-based backup system** for **automating file backups** to cloud storage.
- **Features:**
  - Scheduled automatic backups
  - Incremental backup system to save storage space
  - Cloud integration for remote access
- **Technologies Used:** Python, AWS S3, Google Drive API

5. E-Commerce Platform Prototype

- Designed an **e-commerce website prototype** with user authentication, product listings, and a shopping cart.
- Technologies Used: **React, Firebase, Node.js, Stripe API**
- Implemented a secure login system and **basic payment gateway** for testing.

PROFESSIONAL DEVELOPMENT & CERTIFICATIONS

- **ICDL Certification** *(2022)*
- **Google IT Support Certification** *(Ongoing)*
- **AWS Cloud Practitioner (Fundamentals)** *(Ongoing)*
- **Courses on Coursera & Udemy (Cybersecurity, Web Development, Data Science)** *(Ongoing)*

EXTRACURRICULAR ACTIVITIES

- Active **Tech Community Member** at Technical University of Mombasa
- Volunteer in **Tech Awareness Programs** for high school students
- Passion for **AI, Cybersecurity, and Ethical Hacking**

REFERENCES

Available upon request.