

# ASFORD MWANGI

*Backend Developer | Creative Technologist | Cybersecurity Learner*

📍 Thika, Kenya

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## Professional Summary

Resilient and methodical software engineering student specializing in backend development and creative media workflows. Skilled in building production-grade RESTful APIs, debugging Express.js applications, and integrating dynamic React components. Passionate about blending technical rigor with creative streaming setups using OBS, NDI, and VirtualDJ scripting. Currently expanding into cybersecurity fundamentals through Simplilearn, focusing on threat awareness and system protection.

## Technical Skills

Domain	Tools & Technologies
<b>Backend Dev</b>	Node.js, Express.js, MongoDB Atlas, Mongoose, RESTful APIs
<b>Frontend</b>	React, Vite, JSX, CSS Modules
<b>Debugging</b>	Thunder Client, Postman, PowerShell
<b>Automation</b>	PowerShell scripting, Python
<b>Creative Media</b>	OBS Studio, NDI, Teleport, VirtualDJ scripting
<b>Cybersecurity</b>	Simplilearn Intro Course (Threats, Vulnerabilities, Basic Network Security)
<b>Dev Practices</b>	Git, GitHub, SCRAM Authentication, Environment Config, Logging & Monitoring

## Projects

## Matrix Portfolio API

- **Tech:** Express.js, MongoDB Atlas
- Built a secure backend with robust CRUD operations and validation.
- Integrated contact form with SCRAM-authenticated user access.
- Automated test scripts and logging for production readiness.

## Wireless Streaming Workflow

- **Tech:** OBS, NDI, Teleport, VirtualDJ
- Engineered low-latency LAN/WLAN streaming setup.
- Scripted VirtualDJ transitions and effects for hybrid media performance.
- Documented setup for reproducibility and scalability.

## Document Formatter

- **Tech:** PowerShell, Python
- Automated formatting for educational assessments and church invitations.
- Implemented error scanning and layout polishing for professional output.

## Thunder Client Debug Suite

- **Tech:** Express.js, Thunder Client
- Diagnosed malformed JSON requests and refined endpoint logic.
- Enhanced backend resilience through iterative logging and validation

## Auto-Increment React UI

**Tech:** React, Vite

- Developed dynamic UI components with auto-increment logic.

- Integrated frontend with backend APIs using `useEffect` and state management.

## Education

### Power Learn Project (PLP)

- Software Engineering Track
- Specialization: MERN Stack Development
- Backend focus with hands-on API development and deployment.
- Creative media integration and automation scripting.

### Simplilearn

- Cybersecurity for Beginners
- Introduction to cybersecurity principles, threat types, and basic protection strategies.
- Hands-on labs and foundational network security concepts.

## Certifications & Achievements

- **GitHub Contributor:** 265+ contributions in 2025 across 50+ repositories.
- **Project Lead:** Matrix-themed portfolio with glitch effects and secure backend.
- **Streaming Innovator:** Wireless OBS + VirtualDJ scripting across LAN/WLAN setups.
- **Microsoft packages:** Microsoft packages typically refer to various software offerings and productivity tools that are packaged together to provide users with a comprehensive suite of applications.

Examples of these packages include:


- **Microsoft Office:** A widely used suite that includes applications like Word, Excel, PowerPoint, and Outlook, designed to facilitate word processing, data analysis, presentation creation, and email management.
- **Microsoft 365:** A subscription-based service that provides access to Office applications along with additional cloud-based features, such as OneDrive for storage and Microsoft Teams for collaboration.
- **Visual Studio:** An integrated development environment (IDE) for developers, which includes tools and services for building applications across different platforms.


## Contact & Collaboration

Open to backend development roles, freelance API work, and creative media collaborations.

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 Portfolio: [matrix-portfolio](#)