**Nickson Njau**  
Full-Stack Developer | Systems Architect | Tech Entrepreneur  
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Phone: +254 704771089  
Portfolio: <https://bantoki.github.io/Personal_Portfolio/>  
GitHub: <https://github.com/NJAU-NICKSON>  
Location: Nairobi, Kenya

**PROFESSIONAL SUMMARY**

Passionate and solution-driven BSc Information Technology student at JKUAT with over 3 years of experience in full-stack development, systems architecture, and tech entrepreneurship. Known for building scalable, impact-focused applications that address real-world challenges in agriculture, youth empowerment, and education. Currently developing **Agriventors**, a blockchain-driven AgriTech platform, and actively contributing to youth-focused community systems.

Core Strengths:  
Python & Flask Development, API Design, MongoDB & SQL Databases, System Architecture, Agile Practices, Community-Centered Development

**TECH STACK & TOOLS**

**Languages & Frameworks**

* Backend: Python (Flask, SQLAlchemy, Celery), Java (Spring basics), C++, Visual Basic
* Frontend: JavaScript, HTML5, CSS3, Bootstrap
* Databases: MongoDB (Aggregation, Indexing), PostgreSQL, MySQL, SQLite

**Tools & Practices**

* API Development: RESTful APIs, JWT Authentication, Rate Limiting
* DevOps: Docker, Git, GitHub, CI/CD Pipelines
* Linux Administration, Agile & TDD, VS Code

**EDUCATION**

**Bachelor of Science in Information Technology**  
Jomo Kenyatta University of Agriculture & Technology (JKUAT)  
Year 3, Semester 2 | Expected Graduation: 2027  
Relevant Coursework: Software Engineering, Database Systems, Advanced Programming, Computer Networks, Systems Analysis

**PROFESSIONAL EXPERIENCE**

**Founder & Lead Architect – Agriventors (AgriTech Startup)**  
January 2024 – Present

* Initiated the design of a blockchain-powered agricultural investment platform
* Currently leading MVP development with smart contract automation for milestone-based funding
* Conducted research into IoT sensor integration for real-time crop monitoring and risk assessment
* Long-term vision: Support 10,000+ smallholder farmers across East Africa by 2027

**Lead Developer – Inventory Management System**  
June 2023 – December 2023

* Developed a cross-platform inventory system using Flask and Tkinter
* Led a 3-person team through agile software development lifecycle
* Reduced inventory discrepancies by 85% and increased stock turnover by 40%

**Lead Developer & Coordinator – Youth Empowerment Portal**  
March 2023 – August 2023

* Built a centralized portal for youth mentorship, events, and financial tracking
* Increased youth participation by 150% and reduced administrative workload by 70%
* Worked with stakeholders to align the system with community empowerment goals

**KEY PROJECTS**

**AI-Powered Study Guide Generator**  
Technologies: React, Flask, MongoDB, LLaMA

* Summarizes academic PDFs for personalized study
* Improved study efficiency by up to 60%

**Agriventors Platform** *(In Development)*  
Technologies: Blockchain (Ethereum), Smart Contracts, Django, PostgreSQL, HTML/CSS/JS

* Designing MVP for a decentralized agri-financing platform
* Smart contract automation for transparent milestone-based payments
* IoT integration planned for real-time crop monitoring and investor assurance

**Inventory Management System**  
Technologies: Flask, MongoDB, Tkinter

* Real-time stock tracking and analytics dashboard
* Supports barcode scanning, auto-reorder triggers, and role-based access

**Youth Empowerment Portal**  
Technologies: Flask, Bootstrap, SQLite

* Streamlines youth organization workflows with secure authentication, event tracking, and finance modules
* Benefited over 500 youth through community engagement and digital access

**Mwìki Boda Boda SACCO System**  
Technologies: Tkinter, SQLite

* Developed desktop system for SACCO member registration, loans, and reporting
* Helped digitize financial operations for 60+ local riders

**LEADERSHIP & IMPACT**

**Tech Leadership**

* Led cross-functional development teams (3–5 members) in project design and deployment
* Conducted mentorship workshops on Git, Python, and full-stack application development
* Maintained open-source repositories and contributed to community tech projects

**Community Engagement**

* Spearheaded digital literacy initiatives in underserved youth communities
* Speaker at university tech events and grassroots innovation forums
* Advocates for Ubuntu-inspired, collaborative technology design models

**RECOGNITION & ACHIEVEMENTS**

* Founder of Agriventors – MVP currently under development
* Built digital systems serving 500+ active users across Kenya
* Consistently high-performing in academic coursework and practical development
* Recognized for socially impactful innovation in education, agriculture, and youth development

**CERTIFICATIONS & LEARNING PATH**

**Currently Learning (2025)**

* AWS Cloud Practitioner
* Cybersecurity Fundamentals

**Planned (2025–2026)**

* Microsoft Azure Fundamentals
* MongoDB Certified Developer
* Agile Project Management

**PROFESSIONAL INTERESTS**

* Technology for Social Good: Building tools for agriculture, education, and digital inclusion
* Entrepreneurial Innovation: MVP creation for underserved markets
* Sustainable Development: Designing environmentally conscious and long-term tech solutions

**LANGUAGES**

* English – Fluent (Professional Working Proficiency)
* Swahili – Native Speaker

**REFERENCES**

Available upon request

**"Engineering scalable solutions that bridge technology and human potential."**  
Portfolio: <https://bantoki.github.io/Personal_Portfolio/>  
Last Updated: August 2025