**NICKSON NJAU**

**Full-Stack Developer | Systems Architect | Tech Entrepreneur**

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🌐 https://bantoki.github.io/Personal\_Portfolio/

💻 https://github.com/NJAU-NICKSON  
📍 Nairobi, Kenya

**PROFESSIONAL SUMMARY**

Results-driven **BSc Information Technology** student and **Full-Stack Developer** with 3+ years of hands-on experience in backend systems architecture, database optimization, and scalable web application development. Proven track record of leading development teams, founding tech startups, and delivering enterprise-grade solutions that drive measurable business impact.

**Core Competencies:** Python/Flask Development • MongoDB/SQL Database Design • System Architecture • Team Leadership • Agile Methodologies • Community Building

**TECHNICAL EXPERTISE**

**Programming Languages & Frameworks**

* **Backend:** Python (Flask, SQLAlchemy, Celery), Java (Spring Boot basics), C++
* **Frontend:** JavaScript, HTML5, CSS3, Bootstrap.
* **Databases:** MongoDB (Aggregation, Indexing), SQL (PostgreSQL, MySQL)
* **Other:** Visual Basic, Git Version Control, Linux Administration

**Development Technologies**

* **API Development:** RESTful Services, JWT Authentication, Rate Limiting
* **Cloud & DevOps:** Docker containerization, CI/CD pipelines
* **Development Tools:** Agile methodologies, Test-Driven Development

**EDUCATION**

**Bachelor of Science in Information Technology**  
*Jomo Kenyatta University of Agriculture & Technology (JKUAT)*  
**Current:** Year 3, Semester 2 | **Expected Graduation:** 2027

**Relevant Coursework:** Advanced Programming • Database Systems • Software Engineering • Computer Networks • System Analysis & Design

**PROFESSIONAL EXPERIENCE**

**Founder & Lead Architect | *Agriventors (AgriTech Startup)***

**Jan 2024 - Present**

* Founded and architected blockchain-powered agricultural investment platform connecting farmers with urban investors
* Designed decentralized finance (DeFi) solutions for agricultural financing, reducing intermediary costs by 40%
* Led technical research on IoT sensor networks for real-time crop monitoring and yield prediction
* Developing MVP with smart contract automation for transparent investment tracking

**Lead Systems Developer |  *Inventory Management Project***

**Jun 2023 - Dec 2023**

* Architected and developed enterprise-grade inventory management system using Python (Flask) and MongoDB
* Led 3-person development team through full SDLC, implementing Agile methodologies
* **Results:** Reduced inventory discrepancies by 85%, improved stock turnover by 40%
* Built cross-platform desktop application with Tkinter, featuring real-time analytics and role-based access control

**Lead Developer & Community Coordinator | *Youth Empowerment Portal***

**Mar 2023 - Aug 2023**

* Developed comprehensive web-based platform for youth organization management and community engagement
* Implemented secure authentication system, automated financial tracking, and event management tools
* **Impact:** Increased youth participation by 150%, reduced administrative workload by 70%
* Designed responsive UI/UX ensuring accessibility across all device types

**KEY PROJECTS**

**Inventory Management System**

**Technologies:** Python (Flask), MongoDB, Tkinter, JavaScript, HTML5/CSS3

* Enterprise inventory solution with real-time stock tracking and predictive analytics
* Advanced database design with optimized indexing and complex aggregation queries
* Integrated barcode scanning and automated reorder alerts
* **Business Impact:** 85% reduction in inventory discrepancies, 60% less manual data entry

**Agriventors - Agricultural Investment Platform**

**Technologies:** Blockchain (Ethereum), Smart Contracts, IoT, Python

* Decentralized platform democratizing agricultural investment across Kenya
* Smart contract automation for transparent milestone-based payments
* IoT integration for real-time crop monitoring and risk assessment
* **Vision:** Serving 10,000+ farmers across East Africa by 2027

**Youth Community Management System**

**Technologies:** Flask, MongoDB, Bootstrap, JavaScript

* Comprehensive platform streamlining youth organization operations
* Automated contribution tracking with financial transparency tools
* Event management system with notification automation
* **Results:** 150% increase in community engagement, enhanced financial transparency

**LEADERSHIP & COMMUNITY IMPACT**

**Technical Leadership**

* **Team Management:** Led cross-functional development teams of 3-5 members
* **Workshop Facilitation:** Conducted technical workshops on modern development practices
* **Open Source:** Active contributor to community projects and public repositories

**Community Building**

* **Youth Empowerment Advocate:** Spearheading digital literacy initiatives in underserved communities
* **Tech Evangelism:** Speaker at local tech meetups and university events
* **Ubuntu Philosophy:** Implementing collaborative development approaches based on African philosophy

**ACHIEVEMENTS & RECOGNITION**

* **Startup Founder:** Successfully launched Agriventors with focus on blockchain-agricultural solutions
* **Academic Excellence:** Consistent high performance in Information Technology program
* **Community Impact:** Measurable improvements in youth engagement and organizational efficiency
* **Technical Innovation:** Developed scalable systems serving 500+ active users

**CERTIFICATIONS & PROFESSIONAL DEVELOPMENT**

**Current Learning (2025):**

* AWS Cloud Practitioner Certification (In Progress)
* Cybersecurity Fundamentals

**Planned Certifications (2025-2026):**

* Azure Fundamentals
* MongoDB Certified Developer
* Agile Project Management

**PROFESSIONAL INTERESTS**

**Technology for Social Good:** Passionate about leveraging technology to address fundamental human needs, particularly in education, agriculture, and youth empowerment sectors.

**Entrepreneurial Innovation:** Experienced in identifying market gaps and developing MVP solutions that evolve into comprehensive platforms serving underserved communities.

**Sustainable Development:** Committed to creating environmentally conscious and economically sustainable technology solutions that promote long-term community growth.

**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