# Ivan Rono

ICT Officer · Backend Engineer · AgriTech Innovator

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## PROFILE

ICT Officer and full-stack engineer building production digital systems for agriculture. Experienced in Django, React, PostgreSQL and data pipelines, with a focus on farmer registration platforms, dashboards and analytics that serve smallholder farmers, researchers and decision makers across Kenya.

## PROFESSIONAL EXPERIENCE

### ICT Officer / Backend Engineer / Full-Stack Developer

2024 — Present

*Kenya Agricultural & Livestock Research Organization (KALRO)*

- Develop and maintain React & Django-based web applications.
- Build dashboards, analytics systems and reporting tools.
- Design and integrate secure backend APIs and database systems.
- Integrate KoboCollect and agricultural field data pipelines.
- Support digitization of farmer registration and agricultural data workflows.
- Develop scalable, high-performance, low-latency software solutions.
- Implement system security, authentication and data protection measures.
- Contribute to ICT infrastructure support and automation initiatives.

***Tech:*** *React.js · Django · PostgreSQL · REST APIs · Python · GIS · KoboCollect*

### IT Support Assistant / Branch Inventory Lead

April 2020 — Jan 2024

*Quickmart Limited*

- Provided technical support for hardware, software and network issues.
- Installed, configured and maintained IT systems and equipment.
- Managed inventory operations, stock reconciliation and reporting.
- Developed spreadsheets and reports for operational analysis and inventory tracking.
- Supported users with troubleshooting, system maintenance and software training.
- Assisted in implementing IT policies and operational procedures.
- Managed damages, expiries, stock replenishment and inventory optimization.
- Provided support for meetings, events and audio-visual systems.

***Tech:*** *Microsoft Excel · Networking · Hardware Support · Inventory Systems · IT Support*

### Back Office Clerk (Data Entry Clerk)

Jan 2020 — April 2020

*Quickmart Limited*

- Entered and maintained large volumes of business data with high accuracy.
- Verified and updated records within database systems and spreadsheets.
- Performed regular data backups and ensured data preservation.
- Generated reports and organized operational documentation.
- Retrieved and processed data requests efficiently.

***Tech:*** *Excel · Database Systems · Data Management*

### Sales Assistant

August 2019 — Dec 2019

*Quickmart Limited*

- Managed product displays, stock visibility and merchandise organization.
- Monitored inventory levels and replenished products accordingly.
- Updated pricing, promotional materials and customer-facing signage.
- Ensured quality control and removal of damaged or expired products.
- Supported daily retail operations and customer service activities.

**Computer Science Intern** May 2019 — August 2019

*Longisa County Referral Hospital*

- Maintained computer systems, network hardware and software infrastructure.
- Configured employee workstations and troubleshot system issues.
- Implemented network security and monitored system performance.
- Removed malware, ransomware and other system threats.
- Assisted in technical support and ICT maintenance operations.

***Tech:*** *Networking · System Administration · Cybersecurity · Hardware Maintenance*

**Hardware Technician** June 2017 — January 2019

*Blue Chip Electrical and Computer Services*

- Diagnosed and repaired computer hardware and peripheral devices.
- Provided desktop support and end-user troubleshooting services.
- Assisted in website development projects using Django.
- Collaborated with technical teams during hardware testing and validation.
- Maintained technical documentation and functional specifications.

***Tech:*** *Computer Hardware · Desktop Support · Django · Python*

## CORE SKILLS

**Backend:** Django, Django REST Framework, Python, Node.js, PostgreSQL, REST APIs
**Frontend:** React.js, TypeScript, Tailwind CSS, Next.js
**Data & Geo:** KoboCollect, ETL pipelines, GIS, Analytics dashboards
**DevOps & Tools:** Git, Docker, Linux, CI/CD, Cloud deployment
**Other:** Authentication & Security, System Administration, Networking

## EDUCATION

**Bachelor in Computer Science**

Rongo University, 2015 – 2019

**Kenya Certificate of Secondary Education (KCSE)**

Lodwar High School, Mean Grade B+, 2011 – 2014

**Kenya Certificate of Primary Education (KCPE)**

Manyatta Primary School, Mean Grade A-, 2001 – 2010