

# KATO EMMANUEL

Full-Stack Software Engineer · Web & Mobile Applications

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## PROFESSIONAL SUMMARY

Innovative Full-Stack Software Developer with 3+ years of experience building scalable web, mobile, and AI-powered applications. Expert in Laravel, Vue.js/Nuxt.js, and Flutter, from robust backend architectures to intelligent systems that automate workflows and deliver data-driven features. Delivered cross-platform apps adopted by 450+ field users, cutting manual reporting time by 75%. Passionate about clean architecture, open-source, and technology that solves real-world problems in challenging environments.

## KEY ACHIEVEMENTS

### 75% Time Saved

Reduced manual reporting via automated data sync on the Kijani Forestry platform.

### 450+ Field Users

Delivered a cross-platform Flutter + Airtable app now used daily by field staff across Uganda.

### 3 Teams to Finals

Mentored student teams to national finals in app development competitions.

## PROFESSIONAL EXPERIENCE

### Systems Upgrade Specialist (Freelance)

**Native Frontiers** | Jan 2026 – Mar 2026 | Kampala, Remote

- Modernising legacy POS systems to current architectures, improving performance, scalability, and maintainability.
- Designing offline-first desktop and mobile applications for reliability in low-connectivity environments.
- Optimising database structures and data workflows to streamline operations.
- Collaborating with stakeholders to ensure seamless transition from legacy to modern systems without disrupting operations.
- Introducing modern frameworks and security best practices to future-proof existing platforms.

### Software Developer

**Kijani Forestry** | Jan 2024 – Dec 2025 | Gulu City, Uganda

- Designed, developed, and deployed the Kijani Forestry Mobile App (Flutter + Airtable API) used by 450+ field users.
- Cut manual reporting and data collection time by 75% through automated real-time synchronisation.
- Built a custom Airtable API wrapper in Flutter (open-sourced as the Airtable CRUD Package) simplifying data operations.
- Collaborated with cross-functional teams in Agile sprints, delivering weekly feature releases.

### IT Assistant

**Kijani Forestry** | Sep 2023 – Jan 2024 | Gulu City, Uganda

- Reduced IT-related downtime by 30% through proactive technical support and system maintenance.
- Trained 20+ staff on digital tools, significantly improving data accuracy and operational efficiency.

## Junior Developer (Intern)

Oysters & Pearls Uganda | Nov 2021 – Aug 2023 | Gulu City, Uganda

- Developed responsive web interfaces using PHP and Tailwind CSS, improving page load speed by 35%.
- Participated in database schema design and backend implementation in a collaborative team setting.

## Technovation Mentor

Oysters & Pearls Uganda | Feb 2023 – Apr 2023 | Gulu City, Uganda

- Mentored 100+ students in mobile app development using MIT App Inventor.
- Guided three student teams to national-level finals, emphasising user-centred design principles.

## NOTABLE PROJECTS

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### Kijani Forestry App

Cross-platform Flutter application integrated with Airtable APIs for offline-first field data collection. Adopted by 450+ field staff across Uganda, streamlining data workflows in low-connectivity environments.

### Airtable CRUD Library (Open Source)

Open-source Dart library simplifying Airtable API integration for Flutter developers. Published to the Flutter/pub.dev community to reduce boilerplate and accelerate development.

## TECHNICAL SKILLS

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Languages	PHP, JavaScript (ES6+), TypeScript, Dart, HTML5, CSS3
Frameworks	Laravel, Vue.js, Nuxt.js, Flutter, Node.js
Databases	PostgreSQL, MySQL, Firebase, Airtable
DevOps & Tools	Linux (Ubuntu), Nginx, Git/GitHub, CI/CD Pipelines, Postman, Docker
Frontend	Tailwind CSS, Responsive Design, Figma
AI & LLMs	LLM API Integration (OpenAI, Anthropic), Prompt Engineering, AI-Powered Application Development

## EDUCATION & CERTIFICATIONS

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**Bachelor's Degree in Business Computing** · Expected 2028

Metropolitan International University · Commencing August 2026 · Kampala, Uganda

**Higher Education Access Certificate** · Physics & Mathematics

*Comprehensive foundation programme in Physics and Mathematics, preparing for STEM higher education.*

**Responsive Web Design Certificate**

FreeCodeCamp.org 2023 · HTML5, CSS3, responsive design, accessibility

**JavaScript Algorithms & Data Structures Certificate**

FreeCodeCamp.org 2023 · ES6, OOP, functional programming, algorithms & data structures

## REFERENCES

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### **Elias Muhoozi**

Systems Manager, Kijani Forestry

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### **Obote Dennis**

Tech Coordinator, Oysters & Pearls Uganda

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