

ENGINEER KALYANGO BRIAN

FOUNDER, LEAD SOFTWARE ARCHITECT & CEO | TFAST DIGITAL AGENCY

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EXECUTIVE SUMMARY

Accomplished **Lead Software Engineer, Systems Architect, and Technology Founder** with over 7+ years of hands-on experience building mission-critical enterprise software, custom SaaS platforms, high-performance e-commerce systems, and payment gateway automation across East Africa and globally. Certified across AWS Cloud, Google Android, Udemy Enterprise Architecture, and IBM Cybersecurity. Specialist in full-stack web development (PHP/Laravel 13, React, TypeScript, Next.js), mobile & desktop engineering (Android, Flutter, C#), API integration (MTN MoMo, Airtel Money, URA EFRIS), and binary security analysis.

CORE TECHNICAL COMPETENCIES

Backend & APIs:	PHP 8.3+, Laravel 13, Python, C# (.NET Core), Node.js, Express, RESTful APIs, Webhooks, GraphQL, Queue Supervisors (Horizon/Celery)
Frontend & UI/UX:	React, TypeScript, Next.js, Inertia.js, Tailwind CSS, HTML5, CSS3, Web Vitals & Page Speed Optimization
Mobile & Desktop:	Android (Java/Kotlin), Flutter, C# Desktop Apps (WinForms/WPF), Electron, ASAR & Native Utilities
Payments & Fiscal:	MTN MoMo Developer API, Airtel Money Gateway, URA EFRIS Electronic Invoicing, Flutterwave, Stripe, PayPal
Security & RE:	IDA Pro, Ghidra, Assembly (x86/x64/ARM), APK/Smali Decompilation, Binary Integrity Hardening, OWASP Top 10
Databases & DevOps:	MySQL, PostgreSQL, Redis Caching, Docker, Nginx, Linux SysAdmin (Ubuntu/RHEL), Cloudflare Edge CDN

VERIFIED ONLINE CERTIFICATIONS & CREDENTIALS

Udemy Certification:	Mastering Advanced Laravel 11/13 & Microservices Architecture — Enterprise Web Application Design, Queue Supervisors, and Domain-Driven Design.
Udemy Certification:	Practical Reverse Engineering & Binary Malware Analysis — x86/x64 Assembly, IDA Pro, Ghidra, and Software Integrity Hardening.
Udemy Certification:	Modern React, TypeScript & Next.js Full-Stack Masterclass — Server Components, Inertia.js Integration, and State Hydration.
Udemy Certification:	REST API Security, OAuth 2.0 & Webhook Engineering — Secure Payment Gateway Webhooks, Rate Limiting, and Encryption Standards.
AWS Certification:	AWS Certified Solutions Architect – Associate — Scalable Cloud Infrastructure, EC2, S3, RDS Caching & Auto-Scaling.
Google Certification:	Associate Android Developer (Google/Coursera) — Native Android App Development, Kotlin, Room DB, and Background Services.
IBM / Coursera:	IBM Cybersecurity Analyst & Web API Protection Certificate — Threat Modeling, Vulnerability Mitigation, and Penetration Testing.

MAJOR SOFTWARE PRODUCTS & ECOSYSTEMS BUILT

- **NovaCare PC v2.0.0 (Windows Utility Suite):** Built a 30+ tool Windows desktop optimizer, hardware diagnostic, and real-time security application with an integrated GPT-4o Mini AI assistant. Published on GitHub.

- **TFast Unified Agency Ecosystem:** Engineered the complete corporate agency platform (tfastdigital.com), connecting public marketing, service discovery, interactive quote calculators, automated PDF proposals, and client hub management.
- **GSM USB Server & Technician Remote Flashing:** Created a distributed Windows client-server software application enabling remote USB sharing and device flashing for smartphone software technicians across East Africa.
- **SACCO & Core Microfinance ERP Platform:** Architected an enterprise microfinance management system featuring member savings accounts, automated loan interest calculations, dividend processing, and real-time SMS alert webhooks.
- **URA EFRIS & Mobile Money Unified Payment Drivers:** Developed reusable PHP/Laravel packages connecting business POS systems directly to Uganda Revenue Authority EFRIS fiscal servers and MTN/Airtel Mobile Money wallets.

PROFESSIONAL EXPERIENCE

Founder, Lead Software Architect & CEO | TFast Digital Agency (Kampala, Uganda) 2019 – Present

- Directed end-to-end technical strategy, architecture, and software development for 100+ business applications, e-commerce stores, and enterprise portals.
- Engineered custom API payment integrations for MTN MoMo and Airtel Money, facilitating over UGX 500M+ in automated mobile transactions.
- Built and maintained Linux VPS server infrastructure with Nginx, Redis caching, OPcache, and Cloudflare CDN, achieving 99.9% uptime SLA.
- Led client technical consultations, code reviews, vulnerability audits, and product roadmaps for corporate and enterprise clients.

EDUCATION & OFFICIAL REGISTRATION

Bachelor of Science in Software & Computer Engineering | *First Class / High Honors*

Registered Business Owner & Lead Director: TFast Digital Agency (Reg No. BRS-IN-2019-0048, Republic of Uganda)