

RYAN WANJIE

Full-Stack Software Engineer — Go | Java | React | Node.js | Fintech

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PROFESSIONAL SUMMARY

Full-Stack Software Engineer with 2 years of production experience designing, building, and maintaining scalable backend services, REST APIs, event-driven data pipelines, and high-performing consumer-facing applications across 7 African markets. Proficient in Go, Java Spring Boot, Node.js, React.js, Next.js, Vue 3, TypeScript, PostgreSQL, Kafka, Docker, and Kubernetes. Built and maintained 9 live platforms collectively serving 10M+ users and processing \$1M+ in quarterly transactions. Track record of owning complex technical problems end-to-end, from root cause analysis of critical production incidents to solo architecture of full platforms from zero to production. Strong fintech and payments domain knowledge including M-Pesa integrations, payment gateway APIs, mobile money flows, transaction reconciliation, and multi-currency processing across East and West Africa.

TECHNICAL SKILLS

Backend: Go (Golang), Java (Spring Boot), Node.js (Express.js), REST API design, gRPC, microservices architecture, event-driven systems, webhook design, HMAC signing

Frontend: React.js, Next.js, Vue 3, Nuxt.js, TypeScript, JavaScript (ES6+), HTML5, CSS3, Tailwind CSS, Bootstrap, SSR/SSG, component library architecture, responsive design

Payments and Fintech: M-Pesa STK push and callbacks, payment gateway integrations, mobile money flows, wallet systems, multi-currency processing, transaction reconciliation, deposit and withdrawal management

Streaming and Real-Time: Apache Kafka, Apache Flink, NATS, real-time event processing, fraud detection pipelines, ClickHouse analytics

Databases: PostgreSQL, MySQL, MongoDB, Redis, ClickHouse — schema design, query optimisation, data modelling, transaction integrity

Infrastructure and DevOps: Docker, Kubernetes (multi-cluster), AWS, GCP, CI/CD pipelines, Git, Linux, deployment and release management

Observability: Grafana, Kibana, Uptime Kuma, distributed tracing, centralised logging, root cause analysis, incident response

Practices: Agile/Scrum, code reviews, unit testing, technical documentation, API contracts, AI-assisted development (Claude, GitHub Copilot)

PROFESSIONAL EXPERIENCE

Full-Stack Software Engineer

Touchvas Innovation Limited | Nairobi, Kenya | September 2024 – June 2026

Designed, built, and maintained full-stack applications for 9 live digital platforms across 7 African markets — Kenya, Nigeria, Uganda, Tanzania, Zambia, Malawi, and DRC — serving 10M+ users and processing \$1M+ in quarterly transactions. Worked across Go and Java Spring Boot backends, React and Vue 3 frontends, PostgreSQL and ClickHouse databases, Kafka streaming pipelines, and multi-cluster Kubernetes deployments on AWS and GCP.

- **Diagnosed and resolved a critical Aviator platform incident** where transaction table bloat exceeding 5 million records caused write latency to collapse, resulting in user funds being incorrectly deducted and generating 40 to 50 complaints per hour. Traced

the root cause, designed and implemented a cron-based archival system that migrated all historical records to a separate archive table and scheduled automatic weekly archival at off-peak hours. Complaints dropped from 40 to 50 per hour to zero immediately, with zero recurrence since.

- **Built a real-time fraud detection pipeline** using Java, Apache Flink, Kafka, ClickHouse, and NATS, processing 50,000+ events per minute with sub-200ms latency across 3 African markets, identifying and flagging suspicious transactions in real time before they completed.
- **Architected and built BandaBets end-to-end as sole engineer**, migrating the platform from a monolith to a modular Nuxt.js architecture and developing a suite of reusable internal frontend packages (@touchvaske/* on a private registry) consumed across platforms via nuxt.config. Eliminated repeated feature buildouts, reduced feature shipping time from 4 weeks to 3 weeks (25% improvement), and enabled new market rollouts to plug in production-ready UI modules from day one. Integrated Bunny CDN and SSR rendering strategies, achieving sub-1.3s load times across low-bandwidth African markets.
- **Designed and maintained Go and Java Spring Boot microservices** — building REST APIs, business logic layers, authentication systems, and third-party integrations including M-Pesa STK push and callbacks, payment gateway APIs with HMAC signing, idempotent webhook verification, and game provider SDKs across 9 live platforms.
- **Fixed a gRPC service name mismatch causing silent payment failures** across live platforms, and resolved a Kafka crash loop replaying malformed messages — both diagnosed via distributed tracing and resolved with full root cause analysis documentation within the same working day.
- **Built three enterprise-grade operational dashboards** — Admin, Affiliate, and Management — providing real-time visibility into financial transactions, reconciliation status, withdrawal management, user activity, revenue metrics, and role-based access across 9 concurrent platforms.
- **Deployed and managed containerised applications** across multi-cluster Kubernetes on AWS and GCP, building CI/CD pipelines that enabled reliable, zero-downtime production deployments and release management across concurrent live products.
- **Implemented multilingual (English, Swahili, French) and multi-currency frontend experiences** across 7 markets, integrating localised payment flows, currency-aware interfaces, and market-specific configurations for diverse African user bases.
- **Participated in Agile ceremonies** — sprint planning, standups, code reviews, and retrospectives — collaborating with backend engineers, QA, DevOps, and business stakeholders across concurrent product teams.
- **Maintained comprehensive technical documentation** — API contracts, root cause analysis reports, architecture notes, and deployment runbooks — ensuring system knowledge was available and transferable across the team.

Technical Support Consultant

Eclectics International Ltd | Nairobi, Kenya | January 2025 – May 2025 | Short-term contract

Provided application support and maintenance for live fintech platforms across multiple African markets, troubleshooting issues and ensuring platform stability within strict SLA requirements.

- **Maintained and enhanced Java Spring Boot backend services** for live fintech products, debugging failures and implementing enhancements across client deployments in multiple African markets.

- **Contributed to the production launch of the Wakulima USSD platform in Tanzania**, supporting system integration, go-live coordination, and post-launch stabilisation.
- **Delivered technical training to internal staff and external clients**, improving platform adoption and building operational capability across client organisations.

LIVE PRODUCTION PROJECTS

Imarabet — imarabet.co.ke (KE) |

BandaBets — bandabets.com (KE/NG/UG/MW/DRC)

BetZetu — betzetu.com (KE) |

Shindapesa — shindapesa.co.tz (TZ) |

Cashfasta — cashfasta.co.tz (TZ)

Softbet — softbet.co.ke (KE)

EDUCATION

Bachelor of Science — Computer Science | Machakos University | Graduated 2024