ERICK MURIITHI KARIUKI

Backend Software Engineer | Laravel, Python & Vue/Nuxt

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PROFESSIONAL PROFILE

Backend-focused Software Developer with 2+ years building RESTful APIs and enterprise applications in PHP (Laravel, Filament) and Python, with frontend experience in Vue.js/Nuxt, Angular, and React Native. Built a multi-tenant fintech disbursement platform in Laravel and Filament, integrating M-Pesa, bank rails and an AMQP service bus, and designed a Python/Nuxt.js workspace-management platform end to end. Comfortable with Docker, AWS, and CI/CD (GitHub Actions) in Agile teams, with a focus on secure, well-tested, production-grade systems.

CORE SKILLS & TECHNOLOGIES

- **Backend & APIs:** PHP (Laravel, Filament, Livewire), Python (Django), JavaScript, TypeScript; RESTful APIs, GraphQL, OAuth2 (client-credentials), RabbitMQ/AMQP messaging, payment gateway integrations
- **Databases:** MySQL, SQLite, Supabase; Eloquent, Django ORM
- **Testing & Quality:** Unit, integration, and E2E testing; TDD; code reviews
- **Security & Compliance:** Secure coding, SSDLC awareness, RBAC, audit logging, data protection
- **Cloud & DevOps:** AWS, Docker, Kubernetes, GitHub Actions CI/CD, Git, Vite, Webpack, NPM
- **Frontend & Mobile:** Vue.js, Nuxt, Angular, Tailwind CSS, Vuetify, Bootstrap, React Native; Pinia, Vuex, Zustand; responsive design, Figma-to-code
- **Practices:** Agile/Scrum, technical documentation, cross-team communication

PROFESSIONAL EXPERIENCE

Software Engineer Assistant — Cytonn InvestmentsJun 2024 – Present

- Build and maintain backend systems and RESTful APIs for enterprise financial platforms in Laravel, with Filament and Livewire admin interfaces.
- Contributed to technical architecture decisions to improve system resilience and maintainability.
- Refactored database queries and backend logic, improving performance and reducing technical debt.
- Wrote unit and integration tests to strengthen release confidence.
- Took part in Agile ceremonies and peer code reviews to enforce coding standards.
- Translated business requirements into production-ready solutions with product and design teams; delivered responsive Vue.js/Tailwind CSS interfaces and Angular admin interfaces for CRIMS (portfolio management platform).

Key Project — e-Float: Multi-tenant Petty Cash & Disbursement Platform (Laravel, Filament, Livewire, MySQL, RabbitMQ, Docker)

- Architected a three-system payment pipeline: async AMQP messaging with the core investment platform plus an OAuth2 HTTP integration for M-Pesa and bank payouts, with correlation-ID tracing across all three systems.
- Built idempotent notification and deposit handling with redemption reversal on terminal failure, so retries and polling never double-credit or double-pay.
- Delivered tiered multi-stage approvals, SSO-backed RBAC with per-client access grants, and an append-only audit log in a Filament admin.
- Built bulk payments from CSV/XLSX with all-or-nothing pre-validation and duplicate-recipient detection; fixed a thousands-separator parsing bug that would have paid 1/1000th of the intended amount.
- Built bank-statement reconciliation with coverage-window-aware match rates.
- Shipped with 473 automated tests across 84 files, verified end-to-end against a live message broker and payments instance.

Key Project — Cytrello: Internal Workspace & Task Management Platform (Python, Nuxt.js)

- Owned end-to-end design and delivery of a multi-tenant, in-house task/workspace platform used across departments.
- Built an automated recurring-task engine ("Routines") with scheduled jobs that generate, reset, and reassign cards on hourly/daily/weekly/monthly cycles.
- Built a time-bound handover system that auto-routes a user's cards to a delegate during leave, with automatic reversion and audit visibility.
- Architected a cross-workspace sync service that mirrors cards bidirectionally in real time, with configurable column mapping between boards.
- Implemented granular RBAC separating board-level membership from task-level access, for confidential client-facing collaboration.
- Shipped a CSV/Excel export service and a History/reporting module (completion rates, per-person and per-routine breakdowns) for audits and performance reviews.

Software Engineer Intern — Cytonn InvestmentsMar 2024 – Jun 2024

- Supported full-stack development in Laravel and Vue.js, including backend services and API integrations.

- Improved frontend and backend test coverage, strengthening system stability.
- Assisted with CI/CD pipeline setup for backend and frontend deployments.
- Contributed to system design documentation and architectural reviews; took part in Cytonn's internal innovation program.

Data Intern — NDMA (ICT Department)Jul 2022 – Sep 2022

- Automated Python data pipelines for national drought monitoring dashboards in a government setting.
- Cleaned and validated datasets to ensure reporting accuracy; built data visualization components for operational reporting.

ACADEMIC QUALIFICATIONS

Maseno University — BSc Computer Science, Second Class Upper Division2019 – Dec 2023

CERTIFICATIONS

- CCNA: Switching, Wireless & Routing Essentials
- Microsoft Certified: Power BI Data Analyst Associate

REFEREES

Available upon request.