



Patrick Kabanda

FULL-STACK SOFTWARE ENGINEER
Backend Specialty

Profile

I design and build secure, scalable software systems that help organisations automate operations, integrate critical services, and deliver reliable digital products.

Employment History

CTO, Software Engineer, at Netpipo Ltd

June 2024 – Dec 2025

As a Software Engineer at Netpipo, I am responsible for developing and maintaining scalable, efficient software systems. I collaborate with cross-functional teams to gather requirements, design solutions, and implement software projects. Additionally, I utilize my skills in JavaScript, Python, Git, SQL, Docker, React, and [Next.js](#), Nginx, Haproxy, DevOps to create and distribute innovative software solutions.

Responsibilities:

- Collaborating with cross-functional teams to gather requirements and design software solutions.
- Developing and maintaining scalable, efficient software systems using a range of technologies.
- Utilizing Git for version control and collaboration with team members.
- Implementing and maintaining databases using SQL for data storage and retrieval.
- Continuously seeking to enhance expertise in various areas of software development and engineering.

Software Engineer, at ACR-Online Accounting Services Ltd

May 2024 – Dec 2025

Served as a software engineer for an accounting and training services firm, designing and delivering multiple business-critical systems to streamline operations, automate financial workflows, and support large-scale enrollment processes.

Responsibilities:

- Designed and developed a comprehensive Enrollment Management System (EMS) enabling administrators to create training programs, process applications, and manage the full enrollment lifecycle from submission to program commencement",
- Built robust integrations with QuickBooks Online to synchronize customers, invoices, payments, items, and chart of accounts with an external Management Information System (MIS)",
- Developed payment processing integrations with UrubutoPay to securely handle student transactions and persist payment records for downstream MIS consumption",
- Engineered RESTful APIs and backend services to support scalable data exchange between internal platforms and third-party systems",
- Collaborated with operations teams to translate business requirements into reliable software solutions aligned with financial compliance needs"

Details

Kigali, Rwanda
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NATIONALITY

Rwandan

DRIVING LICENSE

B

Links

[Portfolio website](#)
[Github Profile](#)
[LinkedIn Profile](#)
[IELTS Score](#)

Skills

Software Development

JavaScript

Python

SQL

Git

Docker

System Administration

Problem Solving

IT Operations Officer, Training Facilitator

ACR-Online Accounting Services

JANUARY 2022 – MAY 2023

As an IT Operations Officer and Training Facilitator at ACR-Online Accounting Services, my role was multifaceted. I oversaw the day-to-day IT operations, ensuring the smooth functioning of systems and networks. I collaborated with cross-functional teams to identify and resolve technical issues, as well as to implement IT projects and initiatives. Additionally, I played a key role in ensuring data security, system backups, and disaster recovery procedures.

As a Training Facilitator, I conducted training sessions on Advanced Microsoft Excel and QuickBooks Accounting Software. I developed comprehensive training materials, delivered engaging sessions, and provided hands-on training to empower employees with the necessary skills to optimize their work processes.

Key Responsibilities:

- Overseeing day-to-day IT operations and ensuring smooth system functioning.
- Collaborating with cross-functional teams to identify and resolve technical issues.
- Implementing IT projects and initiatives to enhance organizational efficiency.
- Ensuring data security, system backups, and disaster recovery procedures.
- Developing and delivering comprehensive training materials on Advanced Microsoft Excel and QuickBooks Accounting Software.
- Conducting engaging training sessions and providing hands-on training to empower employees, Interns and trainees.

Education

Prodev Frontend, ALX ([Certificate](#))

JANUARY 2025 – April 2025

SE, Backend, ALX ([Certificate](#))

JANUARY 2023 – JANUARY 2024

Bachelor's Degree, Mount Kenya University ([Certificate](#))

JANUARY 2019 – JULY 2022

References

Frederick Muhire from NETPIPO Ltd

info@netpipo.com · 0787028385

Maarten Vaan Middelaar from ALX, Sand technologies

maarten@middelaar.dev

Achievements

UrubutoPay (BK Payment gateway) API Integrations

August 2025 – Dec 2025

- **Developed UrubutoPay API integrations** to process student's payments, store and manage those payment information to be used by our Client's MIS.

UI & UX

Microsoft Solutions(Microsoft 365, Dynamics 365, etc)

NoSQL

Bash

AI Tools

React

React Native

Interaction & Communication Skills

Postgres

QuickBooks Online API Integrations

- Developed QuickBooks API integrations to synchronize customers, invoices, payments, items, and chart of accounts with an external client management system.

Netpipo App: Developer & Project Lead

July 2024 – Dec 2025

- Led development and deployment of Netpipo App, contributing to frontend (React) and backend coding, optimizing SEO, and managing the project as team lead for efficient delivery.

On-Premise Public Server : Self-Hosted Infrastructure Dev

Aug 2025 – Sept 2025

- Deployed and hardened a Linux on-premise server with a public IP. Configured DNS routing, reverse proxy (Nginx), SSL/TLS encryption, firewall rules, and mail services (SMTP/IMAP). Implemented service isolation, monitoring, and secure remote administration.

Email Server API: Developer & Devops Engineering

Aug 2025 – Sept 2025

- Built and configured an on-premise Email server API for the purpose of cutting cost on third-parties

Booking App: Team leader Developer

Sept 2025 – Nov 2025

- Collaborated in building an event and booking management system

IremboPay API Integrations

January 2025 – Feb 2025

- Implemented IremboPay API for payment gateways in Netpipo and Learnpipe, and integrated QuickBooks with Netpipo's HR and Payroll Management System for seamless functionality.

Learnpipe: Full Stack Development

January 2024 – Aug 2024

- Built Learnpipe, a training management system for organizations, leveraging a full stack (HTML, CSS, JavaScript, Python, MySQL) to deliver a user-friendly, scalable platform.

Hackathon Success: Africa's Talking Hackathon (Team)

June 2024

- Secured 2nd runner-up by developing the Civic Engage App with USSD integration, enhancing citizen engagement and service accessibility through intuitive UI/UX design.