

PASCAL BYABASAIJA

Backend/Distributed Systems Engineer

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PROFESSIONAL SUMMARY

Backend Engineer specializing in distributed systems and financial infrastructure. **5+ years of experience** building scalable APIs, payment integrations, and cloud-native platforms. Currently building mobile banking infrastructure supporting **30+ SACCOs** and **75k+ monthly transactions** via telecom integrations with **MTN Uganda** and **Airtel Uganda**. Previously drove 73.6% startup growth at Dissimilar Media. Creator of **ChatAPI** and **ChaosCTL**, open-source developer tools demonstrating expertise in **real-time messaging, distributed systems, and chaos engineering**.

PROFESSIONAL EXPERIENCE

Software Engineer | **DMARK MOBILE COMPANY** | On site, Kampala, Uganda | *August 2025 – Present*

- Architected and operated a **fault-tolerant mobile banking transaction system** integrating with telecom providers such as MTN Uganda and Airtel Uganda, supporting **30+ SACCOs and 75,000+ monthly financial transactions**.
- Engineered a **high-throughput bulk payment processing system** enabling automated mobile money payouts, currently processing **15,000+ monthly transactions** with fault-tolerant retry mechanisms.
- Developed **internal observability infrastructure** to monitor API traffic, server resources, and SMS gateway health, improving system reliability and operational visibility.

Full-Stack Software Engineer | **Dissimilar Media** | Remote, Nairobi, Kenya | *May 2024 – Present*

- **Drove 73.6% startup growth** by architecting Monetize 54, an African-focused digital services marketplace serving 500+ users
- **Integrated PayPal payment gateway** with fraud detection, achieving 20% increase in successful transactions and 99.8% uptime
- **Built real-time messaging and notifications system** using WebSocket technology, supporting 200+ concurrent connections (inspiration for ChatAPI project)
- **Implemented intelligent recommendation engine and full text search** using Typesense search, increasing platform engagement by 25%
- **Optimized cloud infrastructure by 30%** through Docker containerization and strategic cloud migration

Project Lead (Oct 2023 - May 2024) & Full-Stack Developer (Jun 2021 - Oct 2023) | Mara Scientific | Kampala, Uganda(Onsite)

- **Promoted to Project Lead** for Mpeke HMIS after 2+ years as developer, leading team of 6 developers
- **Accelerated feature delivery by 38%** and **reduced production bugs by 30%** through Agile implementation and code quality standards
- **Developed 10+ healthcare modules** using Flask, including patient management and inventory systems
- **Architected hybrid cloud/offline solution** for remote clinics, improving system accessibility by 40%
- **Mentored 3 junior developers** and established CI/CD pipeline reducing deployment time from 2 hours to 15 minutes

TECHNICAL SKILLS

Programming Languages: Python, TypeScript, JavaScript, Go

Frameworks: FastAPI, Django, Flask, Gin, Cobra

Databases: PostgreSQL

Cloud & Infrastructure: AWS

DevOps: Git, GitHub Actions, Linux, Docker, Traefik, Nginx

EDUCATION

Bachelor of Information Technology | Ndejje University, Kampala(**Weekend program**) | 2020 – 2023

CERTIFICATIONS

Full-Stack Software Development Program | Microverse, Remote | 2020

CS50's Introduction to Computer Science | edX | 2022

KEY ACHIEVEMENTS

- **Drove 73.6% startup growth** through strategic platform development and performance optimization
- **Early leadership recognition** - promoted to Project Lead after 2 years, managing cross-functional development team
- **Head hunted** - was head hunted to join one of the leading fintech companies in Uganda

Languages: English (Fluent) | **Availability:** Immediate | **References:** Available upon request