

PASCAL BYABASAIJA

Fullstack Software Engineer

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🔗 Portfolio

PROFESSIONAL EXPERIENCE

Full-Stack Software Engineer

Dissimilar Media(formerly Backlink Africa)

2024 – present
Kampala, Uganda

- Spearheaded the full-stack development and launch of Monetize 54, a digital services marketplace, integrating front-end (NextJS 14), back-end (FastAPI), and database (MongoDB) components.
- Integrated PayPal payments into Monetize 54, enabling secure and seamless transactions for users and contributing to a 20% increase in successful payment processing within the first quarter.
- Implemented secure, in-app messaging functionality for Monetize 54, enhancing user communication and leading to a 15% improvement in user engagement metrics.
- Developed and deployed recommendation algorithms for Monetize 54, resulting in a 10% uplift in cross-selling of services and an improved user experience.
- Engineered fast full-text search capabilities for Monetize 54 using Typesense, reducing search query times by 60% and improving user satisfaction.
- Designed and optimized cloud infrastructure on Hetzner using Docker and Traefik, with CI/CD pipelines enabling seamless deployments—resulting in a 30% improvement in platform performance and a 25% reduction in hosting costs.

Project Lead

Mara Scientific

2023 – 2024
Kampala, Uganda

- Was promoted to Project Lead after resolving a critical project delay, successfully mediating between client, management, and engineering teams, resulting in a 60% improvement in delivery times.
- Collaborated with the DevOps team to increase system uptime from 60% to 90% by optimizing infrastructure and scaling systems to handle increased demand and traffic.
- Introduced the deployment of cloud-based and offline instances of the Mpeke HMIS, delivering tailored solutions for both digitized and non-digitized hospitals. This increased customer satisfaction by 15%.
- Led a team of 6 engineers to deploy over 10 stalled key features, implementing a new development process that reduced bottlenecks by 30% and improved project efficiency by 25%.
- Served as the primary liaison between the engineering team and clients, clarifying project goals and timelines, which rebuilt client trust and increased satisfaction by 20%.
- Worked closely with senior management to align engineering efforts with business objectives, playing a key role in strategic planning for new product features and driving a 25% increase in product adoption rates.

Full-Stack Software Engineer

Mara Scientific

2020 – 2023
Kampala, Uganda

- Spearheaded the development of intuitive user interfaces for healthcare applications using React, resulting in a 40% improvement in user satisfaction ratings from medical professionals interacting with the systems.
- Transitioned to Full-Stack Developer by quickly learning Python and Flask, bridging frontend and backend teams and ensuring smooth project progression, reducing feature completion time by 40%.
- Provided technical support to customers, particularly during system downtimes, ensuring swift issue resolution and minimal service disruption by 20%.

- Implemented code linting rules across the codebase, improved code quality, reduced code review time by 30%, and decreased post-deployment bugs.

SKILLS

Backend

Python, FastAPI, Flask.

Frontend

JavaScript, React JS, NextJS, Tailwind CSS, MUI, Bootstrap, HTML, CSS, Headless UI, ShadCN

Cloud Platforms

Digital Ocean, AWS, Google Cloud, Hetzner.

Databases

PostgreSQL, MongoDB

Leadership

Project management, Team building, Strategic planning, Decision making, Mentoring

Dev Ops

Docker, Microservices, CI/CD, Linux Servers, Git, Traefik

EDUCATION

Bachelor in Information Technology

Ndejje University

Coursework included programming in C++ and PHP, Database and System administration, Operating systems, Project management, Communication skills, Research methods etc.

2020 – 2023

Kampala, Uganda

COURSES

Software Development

Microverse

2019 – 2020

- **Dedicated over 1,500 hours to mastering web development** remotely, collaborating with a global community of software developers.
- **Actively participated in peer-to-peer code reviews with over 50 different students**, improving code quality by incorporating feedback and enhancing collaborative learning.
- **Contributed to real-world projects by applying** newly acquired skills to develop over 5 practical, production-ready applications.