

NGENZI HERVE

Full-stack web developer

📍 Kigali, Rwanda ✉ ngenziherve1@gmail.com 📞 +250788630438 🔗 LinkedIn 🐙 GitHub

🔗 portfolio

PROFILE

Backend-focused software engineer with experience building financial systems, APIs, and data-driven applications using Node.js, NestJS, Ruby on Rails, and PostgreSQL. Experienced in designing scalable backend services, integrating payment systems, and deploying production applications on Linux servers.

SKILLS

Backend

NestJS, PHP Laravel, Ruby on Rails

Frontend

ReactJS/NextJS

Database

NoSQL(MongoDB), SQL(Postgresql, MySQL)

Infrastructure & Tools

Linux, Nginx, Docker, Git

PROFESSIONAL EXPERIENCE

Senior software developer

03/2024 – 02/2025

Jali finance

Tech stack:

Node.js, NestJS, Laravel, PostgreSQL, REST APIs, Linux, Nginx, Grafana

Key Achievements:

- **Owned the backend architecture** for a loan and payment platform supporting multi-channel access (USSD, mobile apps, internal dashboards), ensuring consistency and reliability across all transaction flows
- **Designed and implemented event-driven workflows** for loan lifecycle management (application, approval, disbursement, repayment), reducing manual intervention and ensuring real-time synchronisation with external accounting systems
- **Led integration of external financial systems**, building resilient APIs and reconciliation mechanisms to maintain data integrity between loan services and accounting platforms under failure conditions
- **Improved system performance and reliability** by optimising database queries, restructuring API flows, and introducing monitoring (Grafana), reducing response times and identifying production bottlenecks early
- **Architected and delivered a unified payment platform**, enabling customers to apply for loans and make repayments through USSD and mobile applications, increasing accessibility and transaction completion rates
- **Implemented deployment and infrastructure improvements** on Linux servers using Nginx, strengthening system security, uptime, and request handling under load
- **Collaborated on technical decision-making**, contributing to architecture discussions, tradeoff analysis, and long-term system design to support scaling requirements
- **Mentored team members and reviewed code**, improving code quality, enforcing backend best practices, and raising overall engineering standards within the team

Fullstack software developer

01/2021 – 07/2022

GlobexCam Group

Kigali, Rwanda

Tech stack:

PHP Laravel, ReactJS, MySQL

- **Architected and developed** optimised backend database applications for

- **Optimised and refactored** a large-scale codebase for **performance and maintainability**, applying best practices such as caching strategies, efficient query execution, and modular programming.
- **Designed, developed, and integrated** RESTful APIs, facilitating seamless communication between React.js frontend applications and backend services, ensuring scalability, security, and responsiveness.

Back-end Engineer

Mensa Philosophical Circle

10/2023 – 05/2024
Remote, Cyprus

- Built performant and secure server-side applications and databases by deciding the right tools and tech to use.
- Review code for developers and unsure of appropriate feedback, 100% success rate when it comes to appropriate project structure, SOLID, DRY, YAGNI principles.

CONSULTANCY

Full-stack software developer

- Resolved performance bottlenecks in data-heavy integrations with external APIs by redesigning data fetching and processing strategies
- Reduced dependency on costly external data sources, significantly lowering operational costs while improving response speed

2022 – 2023
Kigali, Rwanda

Senior Back-end software development trainer

Private Sector Federation - KLAB

2022 – 2023
Kigali, Rwanda

- Delivered training programs on backend engineering, APIs, and database design for aspiring developers
- Designed a practical curriculum focused on real-world problem solving, debugging, and system design fundamentals
- Mentored trainees through hands-on projects, improving their readiness for professional engineering roles

EDUCATION

Microverse

Microverse [🔗](#)

Remote Full Stack Web Development Program

2019 – 2020

Full-stack JavaScript Program

Andela Learning Community [🔗](#)

2018 – 2019

Adventist University of Central Africa

Honors in networks and communication systems

2014 – 2017

CERTIFICATES

Andela Learning Community

ReactJS

Microverse – Full Stack Web

Development

Ruby on Rails

REFERENCES

Jali Group, *Jali finance*, Jali Group

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Murenzi Bienvenue, *Senior software developer*, Rwanda Ministry of Defence

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Shema Landry, *Senior Software Engineer*, CGI Canada

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