

Herihaja Rabenaivo

Senior Backend Engineer (PHP / Python)

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GitHub: <https://www.github.com/herihaja>

Portfolio: <https://herihaja.gleeze.com>

PROFESSIONAL SUMMARY

Senior Backend Engineer with 10+ years of experience designing and building scalable backend systems using PHP (Laravel, Symfony) and Python (Django). Strong expertise in API design, system architecture, and performance optimization, with experience in fintech and data-driven platforms. Ability to own production systems, improve reliability, and deliver maintainable backend solutions in production environments.

TECHNICAL SKILLS

Backend: PHP (Laravel, Symfony), Python (Django, FastAPI)

Architecture: REST APIs, Service-Oriented Architecture, Event-Driven Systems

Databases: MySQL, PostgreSQL

Search & Data: Elasticsearch, OpenSearch

Infrastructure & Tools: Docker, Redis, Celery (async processing), Git

Concepts: System Design, Performance Optimization, Scalability, Observability

PROFESSIONAL EXPERIENCE

Backend Developer – Cartezy Technology (Danapay Project)

2024 – 2026

- Design and implement scalable backend services using **Laravel (PHP)** for a fintech money transfer platform, ensuring secure and reliable transaction processing
 - Develop and maintain **Laravel-based REST APIs** supporting high-volume financial operations and transaction workflows
 - Own backend components end-to-end, including performance, reliability, and production stability
 - Improve system consistency, monitoring, observability, and incident response for production services
 - Handle Level 2 production incidents, performing deep debugging, root cause analysis, and long-term fixes
 - Collaborate with cross-functional teams to evolve system architecture and backend design
 - Worked with OpenSearch for search functionality and performance optimization
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Fullstack Developer – SwiftCloud.co

2022 – Present

- Design and develop backend services using Symfony (PHP) and build frontend features with React and Vue.js
 - Design and implement REST APIs supporting business workflows and integrations
 - Optimize database queries and improve application performance in production environments
 - Contribute to system design discussions and backend architecture decisions
 - Deliver scalable and maintainable solutions within an international, English-speaking team
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Deputy Technical Director / Senior Backend Developer – HNI (DataWinners Platform)

2011 – 2019

- Progressed from Developer to Deputy Technical Director, contributing to technical leadership and system architecture
 - Designed and evolved backend systems for DataWinners, a cloud-based data collection platform used by NGOs at scale
 - Defined service architecture, API design, and data workflows for form management, submission, and processing
 - Led technical initiatives and collaborated with stakeholders on product and technical roadmaps
 - Mentored developers and enforced best practices in backend engineering, testing, and code quality
 - Worked with Elasticsearch for search functionality and performance optimization
 - Owned production systems, supporting client-facing teams in resolving incidents and ensuring platform stability
 - Performed root cause analysis and continuous improvements for reliability and performance
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SELECTED PROJECTS

payFlow – Bulk Payment Processing System (Django, React)

GitHub: <https://github.com/herihaja/payflow>

- Designed and implemented a scalable backend system for batch payment processing
 - Implemented asynchronous processing using Celery and Redis
 - Built real-time updates using WebSockets
 - Focused on reliability and scalability of financial workflows
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Trading Automation Platform — (Python, AsyncIO, WebSockets)

- Designed and developed a real-time trading automation platform handling market data streams, signal processing, and automated execution workflows
 - Built asynchronous backend services using AsyncIO and WebSocket integrations for low-latency event-driven processing
 - Implemented operational reliability mechanisms including health monitoring, automated recovery workflows, and production debugging tooling
 - Designed scalable backend architecture focused on maintainability, observability, and real-time system stability
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EDUCATION

Engineering Degree – ISPM (Institut Supérieur Polytechnique de Madagascar)
Antananarivo (2003 – 2009)

ADDITIONAL INFORMATION

- English: Professional working proficiency
- Experienced collaborating with distributed international teams
- Based in Madagascar, available for full-time remote collaboration
- Open to relocation and international opportunities