

Herve Nkurikiyimfura

Senior Software Engineer

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Professional Summary

Senior Software Engineer with 9+ years of experience designing and delivering scalable web applications, APIs, and microservice-based systems. Strong expertise in React, TypeScript, Node.js, Express.js, and SQL/NoSQL databases, with proven experience across frontend and backend codebases. Skilled in API design, automated testing, code reviews, technical documentation, Docker, Kubernetes, AWS, and CI/CD pipelines. Comfortable owning features end-to-end, collaborating in Agile teams, and using AI-powered development tools to accelerate coding, testing, debugging, and documentation.

Core Skills

Frontend: React.js, Next.js, TypeScript, JavaScript, HTML5, CSS/SCSS, responsive UI, accessibility

Backend: Node.js, Express.js, REST APIs, GraphQL, PHP/Laravel

Architecture: Microservices, API design, distributed systems, modular architecture, SOLID, design patterns

Databases: PostgreSQL, MongoDB, MySQL, Redis, Firebase

Cloud / DevOps: AWS, Docker, Kubernetes, GitHub Actions, CI/CD

Testing: Jest, React Testing Library, Mocha, Chai, Supertest, Cypress, Playwright

Engineering Practices: Code reviews, technical documentation, runbooks, onboarding guides, Agile/Scrum

AI Tools: GitHub Copilot, Cursor, ChatGPT, AI-assisted coding, testing, and debugging

Professional Experience

Full-Stack Web Developer
Astek — Montréal, Canada

Feb. 2026 – Present

- Full-stack web development in a structured team environment
- Backend and frontend contributions using modern web technologies
- Work with containerized environments and collaborative Agile practices

Senior Full-Stack / Frontend UX Developer
SIA Innovations Inc — Montréal, Canada

Jan 2024 – Dec 2025

- Designed and developed scalable full-stack applications using React, Next.js, Node.js, TypeScript, REST APIs, and GraphQL.
- Built and maintained APIs supporting customer portals, dashboards, and business-critical workflows.

- Integrated and optimized PostgreSQL data flows between backend services and frontend interfaces.
- Deployed containerized applications using Docker and Kubernetes with engineering teams.
- Contributed to automated tests, peer code reviews, mentoring, and technical documentation.

Frontend Engineer

Jun 2021 – Dec 2023

Pindo Ltd — Kigali, Rwanda

- Developed modern web applications using React, Next.js, TypeScript, and a monorepo architecture.
- Integrated frontend applications with backend services through REST and GraphQL APIs.
- Improved automated test coverage using Jest, React Testing Library, Cypress, and Playwright.
- Supported CI/CD workflows and deployment automation using Docker and GitHub Actions.

Full-Stack Software Engineer

Jan 2020 – Jul 2021

Keyring Inc — Seattle, United States

- Developed backend APIs using Node.js and Express.js for web and browser extension products.
- Built services connected to PostgreSQL and Firebase, supporting real-time data flows.
- Integrated third-party payment services, including Stripe and PayPal.

Associate Software Engineer

May 2019 – Apr 2020

Andela Ltd — Kigali, Rwanda

- Developed backend and full-stack features using Node.js, Express.js, PostgreSQL, and MongoDB.
- Participated in Agile ceremonies, code reviews, testing, and technical discussions.
- Improved unit and integration tests for backend services and application workflows.

Web Developer

Oct 2017 – Apr 2019

BICT Ltd — Kigali, Rwanda

- Developed web applications using Node.js, Express.js, PHP/Laravel, React, and MySQL.
- Contributed to application architecture and frontend/backend integration.

Education

Bachelor's Degree in Computer Software Engineering

2018

University of Rwanda