





Jean Baptiste SHUMBUSHO

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 Kigali, Rwanda

PROFILE

I'm a Full-Stack Software Engineer with strong experience in software architecture, DevOps (Docker, Kubernetes, Git, CI/CD), Linux systems, mobile/web development, and system integration. Skilled in data mining, data warehousing, and database management, including designing and optimising large-scale MySQL, Oracle, and SQL Server environments, implementing ETL pipelines, and applying advanced analytics for business intelligence. I have led scalable projects, mentored teams, and contributed to AI/ML, IoT, and GIS mapping initiatives. I also bring extensive hands-on knowledge in JavaScript, Node.js, Spring Boot, MongoDB, React, and related modern technologies. With certifications in networking (CCNA), cybersecurity, and machine learning, I bring a results-driven approach backed by a solid academic background in IT

EXPERIENCE

Tech Lead

 Oct 2022 - Present

ITEC International | Rwanda

- Tech Lead in EXPERIENCE INFORMATION TECHNOLOGY & ENGINEERING CONSTRUCTION (ITEC) -----
Responsibilities:
- Mentored teams, defined architectures, guided tech choices, ensured scalability, led integrations, managed data and database systems, optimized performance, implemented security measures, promoted innovation, and aligned solutions with organisational goals.
- Oversaw software architecture, system integration, and full-stack development.
- Guided mobile and web app development projects.
- Led DevOps adoption (Docker, Git, CI/CD, APIs).


Full-stack Developer

 Sept 2020 - 2022

ITEC International | Rwanda

- Software Developer in EXPERIENCE INFORMATION TECHNOLOGY & ENGINEERING CONSTRUCTION (ITEC) -----
Responsibilities:
- Encompass the entire software development lifecycle for both web and mobile applications, including designing responsive and intuitive frontend interfaces, building secure and scalable backend systems, managing databases, and ensuring smooth deployment and ongoing maintenance..
- Skilled in system integration, including third-party integrations, and in developing APIs to connect and extend existing systems.

IT Support

 Dec 2019 - May 2020

Southern Province

- Responsibilities:
- Daily on-air radio studio equipment troubleshooting and configure any new services
- editing speech-based audio and other related
- Hardware maintenance and troubleshooting
- Network configuration and troubleshooting in HUGUKA offices,

EDUCATION

Bachelor's Degree in Information Technology

 2025

RWANDA POLYTECHNIC

- Bachelor's Degree from RWANDA POLYTECHNIC

Advanced Diploma In IT

 2020

Tumba College of Technology

- Advanced Diploma

High School Diploma, Mathematics, Physics, Computer Science

 2016

Ecole de science NYAMAGABE

- Secondary education
- High school Diploma certificate (A2) in Mathematics, Physics and Computer Science, obtained from Ecole de science de NYAMAGABE.
High School Diploma

SKILLS

Java

JavaScript

Laravel

PHP

Python

ReactJS

Machine Learning

Blockchain

MySQL

NOSQL (MongoDB, Cassandra, Elasticsearch, Hbase, DynamoDB)

LANGUAGES

English

Fluent

French

Basic

Swahili

Basic

OTHER SKILLS & CERTIFICATIONS

Programming Languages:

Java, Python, PHP, JavaScript, TypeScript, SQL, HTML, CSS, Go

Frameworks & Libraries:

FastAPI, Flask, Laravel, Django, Node.js, React, React Native, Flutter, ASP.NET Core, Spring Boot, Angular

DevOps & Tools:

Git & GitHub, Docker, Docker Compose, Docker Hub, Jenkins, Nginx, Swagger/OpenAPI, Podman, Kubernetes

Database Technologies:

MySQL, PostgreSQL, MongoDB, JSON-based DBs, Firebase Firestore, Oracle

Machine Learning & AI:

Model training (image, photo), NLP, LLMs, Detection, Chatbots, Selenium

Data Mining & Data Warehousing:

Expertise in designing and managing large-scale data warehouses using relational databases like MySQL, Oracle, or SQL Server, and implementing ETL processes for structured and unstructured data integration. Skilled in applying data mining techniques such as clustering, classification, and association rule mining to uncover patterns and insights, with practical experience using tools like Weka, RapidMiner, and Python libraries (Pandas, Scikit-learn). Proficient in dimensional modeling (star and snowflake schemas) and OLAP cube creation for advanced analytics, enabling efficient business intelligence reporting and decision-making.

Design & UI Tools:

Figma, Wireframing, Adobe Illustrator, Adobe Photoshop

IoT & Embedded Systems:

IoT database integration using MongoDB and JSON-based systems for real-time sensor data management, with practical knowledge of PCB design using tools like Proteus to simulate and create embedded hardware prototypes. Skilled in hardware troubleshooting and maintenance, as well as basic embedded programming using C/C++ or Micro Python for microcontrollers such as Arduino and ESP32

Monitoring & Infrastructure:

Linux/Windows Server, Network configuration, Monitoring Tools (basic knowledge), Sandbox testing

TRAINING AND CERTIFICATES

- IT Essentials
- CCNAv7: Introduction to Networks
- CCNAv7: Switching, Routing, and Wireless Essentials
- CCNAv7: Enterprise Networking, Security, and Automation
- CCNA Cybersecurity Operations.