Jean Baptiste SHUMBUSHO

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◉ Kigali, Rwanda

PROFILE

Senior Software Engineer with strong experience in software architecture, system integration, DevOps (including Docker, Kubernetes, Git, and CI/CD), Linux systems, and full-stack development across web, mobile, and desktop platforms. Skilled in database design and optimization for MySQL, Oracle, SQL Server, MongoDB, and Cassandra, implementing ETL pipelines, data warehousing, and advanced analytics for business intelligence. Experienced in leading scalable projects, mentoring teams, and contributing to AI/ML, IoT, and GIS mapping initiatives. Proficient in JavaScript, Node.js, TypeScript, React, React Native, Spring Boot, C#, and related modern technologies. Holds certifications in networking (CCNA), cybersecurity, and machine learning, bringing a results-driven approach backed by a solid IT academic background

EXPERIENCE

Senior Software Engineer   📅 Oct 2022 - Present
ITEC International | Rwanda

Responsibilities:

- Led software architecture, server environment setup, and system integration while ensuring scalable, secure, and high-performance solutions
- Mentored engineering teams, defined technical standards, guided technology choices, and drove innovation across projects
- Managed databases and data pipelines while optimising performance, strengthening security, and overseeing DevOps (Docker, Kubernetes, Git, CI/CD) and cross-platform deployments
- Drove innovation across AI/ML, IoT, and GIS initiatives while ensuring solutions align with organisational goals

Full-stack Developer,   📅 Sept 2020 - 2022
ITEC International | Rwanda

Responsibilities:

- Encompass the entire software development lifecycle for both web and mobile applications, including designing responsive and intuitive front-end interfaces, building secure and scalable back-end 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   📅 2024
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
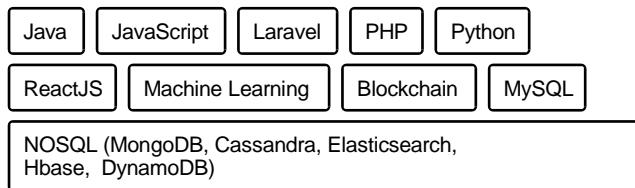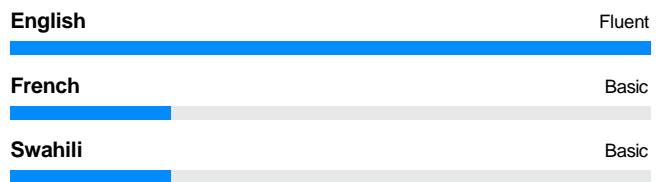Ecole de science NYAMAGABE

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

https://shumbushojeanbaptiste.github.io/portfolio/

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, Cassandra, 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 modelling (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, Prometheus and Grafana

TRAINING AND CERTIFICATES

· IT Essentials

· CCNAv7: Introduction to Networks

· CCNAv7: Switching, Routing, and Wireless Essentials

· CCNAv7: Enterprise Networking, Security, and Automation

· CCNA Cybersecurity Operations.