

# NGANULO RUSHANIKA Moïse

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## SOFTWARE CONSULTANT

### EXPERIENCES

#### **Labvanced** | Polyglot Engineer: Py, TS, JS & C++

January 2021 - November 2024

Germany, 3310 Paderborn

- Implemented a reverse proxy server using Express to embed any webpage into the PageGazer domain and integrated eye-tracking technology to record eye data.
- Created a scalable server with optimized PostgreSQL for large eye-tracking data and recording data from user interactions on a website using a custom queuing MessageBroker.
- Oversaw the successful launch of the Labvanced mobile and desktop app out of beta, resulting in an increase of over 100% in monthly active users.

#### **Vaurse** | Tech Lead

April 2023 – August 2024

UEA, Dubai

- Implemented AI job-seekers and employers matching while saving the data to the pinecone vector database.
- Integrated a DAO system (Solidity) to foster stakeholder collaboration and decision-making.
- Engineered a scalable microservice architecture using Nestjs, and MongoDB and deployed each service to AWS.
- Actively participated in hiring and onboarding new developers.

#### **Mundopato** | Software engineer

December 2021 – March 2022

Portland, United States

- Migrated and restructured legacy monolithic applications into microservices, leveraging cloud environments for scalability.
- Designed event-driven solutions for reliable, scalable, and maintainable systems, while maintaining production systems and managing incidents.
- Applied best practices (SOLID, SEO, TDD, DDD) in development, with expertise in React.js, Next.js, NestJS, and RabbitMQ.

#### **Acklen Avenue** | Backend developer

May 2020 – September 2021

Francisco Morazán Honduras

- Designed and developed backend architecture, including database schema, API endpoints, and server infrastructure, while ensuring robust security protocols.
- Implemented backend functionality to support frontend features and third-party API integrations, optimizing performance through caching and load balancing.
- Collaborated with cross-functional teams to ensure seamless integration and developed automated tests to ensure system reliability and scalability.

### SOFT SKILLS

Teamwork, Professionalism,  
Organisation, Rigorous Attitude, Strong  
Under Pressure, Responsibility,  
Leadership, Active Management

### HARD SKILLS

**Advanced:** Typescript/Javascript,  
Nestjs, Expressjs, MongoDB, Postgres,  
IndexedDB, Prisma, TypeORM, Redis,  
Nextjs, React, Vue, Redux, Jest,  
WebSocket, playwright, Gulp, Zustand  
**Intermediate:** Python, TensorFlowjs,  
RabbitMQ, Kafka,  
Nginx, Docker, Prometheus, New Relic,  
Capacitor.js (Android and ios), Cypress,  
WebGL  
**Familiar:** PineconeDB, Matlab, C++,  
solidity, nwjs, and Streamlit. firebase

### STRENGTHS

#### **Research**

Analytical Mind, Collaborative Ethic,  
First-principles Solution-focused

#### **Development**

REST & GraphQL APIs, CLI Apps,  
ETL Pipelines, Event-driven Processes,  
Trunk-based, GitFlow, Code Review

#### **Testing**

Test-driven Development, GitLab CI,  
Contract Testing, GitHub Actions

#### **Deployment**

GitLab CD, Terraform, k8s, ArgoCD  
AWS.

#### **Design**

Domain-driven, Microservices MVC  
Data-driven

#### **Practices**

Requirement Scoping, Agile Workflows

### EDUCATION

#### **TULANE UNIVERSITY**

M.S in Computer Science  
School of Science and Engineering  
April 2024 - ongoing | New Orleans

## **Juubix** | Software engineer

August 2019 – June 2020

Uk, London

- Implemented a micro-services backend SaaS platform using React-Apollo (Client + Server) and an internal EPD data aggregating GraphQL API
- Implemented an AlaaS platform offering on-demand sentiment analysis built React-Apollo web app leveraging open-source transformer models.
- style transfer & diffusive generation, built as a k8s cluster of event-driven

## **Airtel** | Software engineer

July 2018 – August 2019

DRC, Goma

- I automated issue identification, reducing MTTR and boosting customer satisfaction by 15% using TensorFlow.js and Prometheus.
- Developed a predictive analytics tool, enhancing data-driven decision-making.
- with Javascript(D3.js) for interactive data visualisations.

## PROJECTS

### **UpDev** Solo project | Full stack

Links: [Live](#) && [code](#)

Tech Stack: Nextjs, Express, MongoDB, Bcrypt, clerk

UpDev is more than a social platform, it's a developer ecosystem. Learn, share, collaborate, and thrive with the tools and community you need. Join UpDev today and shape the future of development!

### **AI Image Generator** Solo project | Full stack

Links: [Live](#) && [code](#)

Tech Stack: Nextjs, Express, MongoDB, Bcrypt, Cloudinary, clerk

ImagAI is an AI-powered image SaaS platform offering advanced features like image restoration, recolouring, object removal, generative filling, background removal, secure payments, and robust image search.

### **CodeBase RAGBot** Solo project

Links: [Live](#) && [code](#)

Tech Stack: Python, OpenAI, Streamlit, Pinecone, LLM

CodeBase RAGBot revolutionizes codebase exploration by blending Retrieval-Augmented Generation (RAG) with large language models. Just input a GitHub repository URL, and it provides an intuitive chat interface for seamless understanding and navigation.

### **inventory management system** Solo project

Links: [Live](#) && [code](#)

Tech Stack: Nextjs, Cloudinary, firebase

An inventory management system designed to streamline the process of tracking, managing, and optimizing inventory levels. It ensures accurate monitoring of stock, reduces manual errors and improves overall operational efficiency by providing real-time updates and insights into inventory status.

### **GameHub** Solo project

Links: [Live](#) && [code](#)

Tech Stack: React, Zustand

Game Hub brings diverse games together on a user-friendly platform. A community and enjoyable endless fun and excitement

## **UNIVERSITY OF KIGALI**

BS in Electronics and

Telecommunications

October 2015 - Nov 2019 | kigali, Rwanda

**GPA:** 3.44 / 4

## **WEB DEVELOPMENT PROGRAM**

Microverse.

January 2021 - May 2021 | US

## LINKS

Github: [moise10r](#)

LinkedIn: [moiserushanika](#)

Medium: [moiserushanika](#)

## LANGUAGES

- English
- French