

JEAN-PAUL DE MARIE KYOKYA KALULU

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Qualifications Summary

Backend-focused Software Engineer with hands-on, full stack, experience building and scaling a drone-powered, data-driven platform through my own startup. Currently leading the development of a feedback analytics system powered by AI, supporting tactical decision-making in sports. Proven collaborator in agile teams (4–7 members), with strong written and verbal communication skills for updating stakeholders, writing technical reports, and managing project expectations.

Education

- **Kenyatta University** – B.Sc. in Electrical and Electronics Engineering (2018 – 2021)
 - **Learn2Trade** – Forex and Crypto Trading (Jan. 2022 – Jan. 2023)
 - **ALX Africa** – Software Engineering Backend Specialization (Sept. 2023 – Jan. 2025)
 - **ALX Africa** – AI Starter Kit Program (3rd Feb. 2025 – 11th March. 2025)
 - **ALX Africa** – Backend Web Pro-Development (Jan. 2025 – Aug. 2025)
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Proof of Work Projects

- **[Personal website/portfolio](#)**
An introduction to my universe, a display of my ability to engage with Build and Deploy cycles using a Virtual Private Server configured to host a private Domain Name. But also an exposure to the vision and mission I have, as well as the startups I am actively work for/on.
Technologies Used: Nginx, HTML, CSS, and JavaScript.
Key Contributions: Acquired a yearly subscription for my domain name, monthly-purchasing of a dedicated server for hosting and configured it using Nginx. Build and deploy of the responsively design website containing all relevant personal information and hyperlinks.
- **[Futtech](#)**
An end-to-end Engineering project focusing on build of camera-equipped drones, development of a responsively designed web platform and integration of an assistive Large Language Model. This includes backend development, dynamic web content using the Mern Stack, and third-party service integrations (Google Firebase for images, and Mux for Video uploads).
Technologies Used: MongoDB with Mongoose, ExpressJS run by PM2, React with Sass, NodeJS, and JavaScript.
Key Contributions: Developed API endpoints and implemented responsive web interfaces application usage.
- **[Everything-IoT](#)**
An end-to-end IoT project focusing on Embedded Systems. This includes backend

development, dynamic web content using Flask, and static resources management.

Technologies Used: Python, Flask, SQL, HTML, and JavaScript.

Key Contributions: Developed API endpoints and implemented responsive web interfaces for IoT data display.

Blog Post: Medium Link [here](#).

Language Proficiency

- **English, French, Kiswahili:** Very Fluent
 - **Lingala:** Fluent
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Work Experience

- **Volunteer Language interpreter** (2022)
Broke the language barrier for a French speaking nation in the 10th All-Africa University Games hosted by Kenya, in Kenyatta University where I was enrolled.
 - **Freelance work** (2023 - now)
Collaborated with employers from Europe (Belgium, Switzerland and France) on social media content creation through Scriptwriting, as well as Multilingual audio transcription and translation projects.
 - **ALX Specialization project** (2024)
Lead a team of 4 to ensure effective communication and planning for the Web development project.
 - **Futtech Venture** (2025)
Negotiated with, and convinced, 5 investors to sponsor manufacture of a Drone.
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Technical Skills

- **Programming Languages:** Python, C, Shell Scripting, SQL, HTML/CSS, JavaScript
- **Tools & Platforms:** Emacs, Git/GitHub, Linux, MySQL, JSON, MongoDB, Express, React, Node JS, Unit Testing
- **DevOps & Systems:** Systems Engineering, DevOps, CI/CD pipelines, Nginx
- **Additional Skills:** API Integration, Agile methodologies & Agile Development