# KABUNDI Tshisuaka

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## Professional Summary

Highly motivated and results-driven professional transitioning from 18+ years in **Maintenance Engineering** and **Industrial Automation** to **Full-Stack Software Engineering**. Proven expertise in complex **systems troubleshooting**, **logical problem-solving**, and implementing **control systems** (PLC programming), which directly translates to robust **backend development** and structured **full-stack application** architecture. Recently completed a comprehensive Full Stack Web Development Bootcamp, mastering **modern JavaScript frameworks** (React, Node.js) and agile development methodologies. Seeking to leverage a unique blend of deep technical systems knowledge and new software development skills to excel as a **Full-Stack Engineer** at Campfire, contributing immediately to the development of innovative web technologies.

# Technical Skills

| Category | Skills |
|---|---|
| **Programming Languages** | JavaScript (ES6+), Python, HTML5, CSS3, SQL |
| **Frontend** | React, Redux, Next.js, Tailwind CSS, Bootstrap |
| **Backend & Databases** | Node.js, Express, RESTful APIs, PostgreSQL, MongoDB |
| **Tools & Platforms** | Git, GitHub, Docker, AWS (S3, EC2 - Basic), VS Code, Postman |
| **Industrial Automation** | PLC (Programmable Logic Controllers), Ladder Logic, HMI, SCADA, Electrical Troubleshooting, Diagnostics, Control Systems |

# Projects

## 1. E-commerce Platform (Full-Stack)

- **Technologies:** React, Node.js, Express, PostgreSQL, Redux, Stripe API
- Developed a scalable, full-stack e-commerce application, featuring user authentication, product catalog management, and a secure payment gateway.
- Implemented a **RESTful API** with Node.js and Express to handle data transactions between the frontend and a PostgreSQL database.
- Managed state globally using Redux, ensuring a seamless and responsive user experience.

## 2. Task Management System (MERN Stack)

- **Technologies:** MongoDB, Express, React, Node.js (MERN)
- Engineered a collaborative task management application with real-time updates and drag-and-drop functionality for task prioritization.
- Utilized **modern JavaScript frameworks** (React) for the dynamic user interface and employed MongoDB for flexible data storage.

- Demonstrates proficiency in developing and deploying **full-stack applications** from concept to completion.

## Professional Experience

**Maintenance Engineer / Industrial Automation Specialist** | *Consolidated Experience Across 8+ Companies* **USA** | **2007 – Present**

- Applied **logical thinking** and **systems troubleshooting** to maintain and repair complex industrial machinery, achieving a 99.5% uptime rate across all managed systems.
- Programmed, maintained, and diagnosed **PLC (Programmable Logic Controller) systems** and industrial control networks, demonstrating core competencies in programming logic, system architecture, and optimization—skills directly transferable to software development.
- Led electrical troubleshooting and diagnostics for high-voltage and low-voltage systems, requiring meticulous attention to detail and systematic problem isolation, mirroring debugging in software.
- Successfully executed **maintenance engineering operations** in high-pressure manufacturing environments, consistently delivering solutions under tight deadlines and contributing to overall operational efficiency.
- Managed and optimized **industrial automation** systems, including robotics and HMI interfaces, showcasing experience with complex system integration and user interface design principles.

## Education & Certifications

**QA Software Tester Certificate** JanBask Training | **2025**

**Full Stack Web Development Bootcamp Certificate** Georgia Institute of Technology | **2023**

**Bachelor of Science in Software Engineering** University of Phoenix | **2016**

**Technical Engineering in Electromechanical** DRC (Democratic Republic of Congo) | *Date not required*

## Translation of Skills: Automation to Software Development

The 18+ years of experience in industrial automation and maintenance engineering provides a robust foundation for a career in software development:

- **Systems Thinking:** Deep experience in designing, implementing, and maintaining complex physical systems (PLCs, robotics, control loops) translates directly to architecting scalable and reliable software systems.

- **Programming Logic:** PLC programming (Ladder Logic, Function Block Diagram) is a form of industrial programming that requires the same **logical thinking** and structured approach as writing code in **JavaScript** or Python.

- **Troubleshooting & Debugging:** Electrical and mechanical diagnostics require a systematic, root-cause analysis approach—the same methodology used for identifying and resolving bugs in **backend development** and **full-stack applications**.

- **Automation:** Experience in automating physical processes is directly applicable to continuous integration/continuous deployment (CI/CD) and workflow automation in a software development environment.

- **High-Pressure Problem-Solving:** Consistently solving critical, time-sensitive problems in manufacturing environments demonstrates resilience and the ability to deliver under pressure, a vital skill in fast-paced product development teams.