KABUNDI Tshisuaka

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Professional Summary

Highly motivated and results-driven professional transitioning from 18+ years of extensive **Maintenance Engineering** and **Industrial Automation** experience to **AWS DevOps Engineering**. Proven expert in complex **systems troubleshooting**, **diagnostics**, and implementing **PLC-based automation and control systems**, directly translating to a strong foundation in **logical thinking**, **problem-solving**, and managing **mission-critical infrastructure**. Recently certified in **Full Stack Web Development** and **QA Software Testing**, possessing practical skills in **cloud infrastructure management (AWS)**, **CI/CD pipelines**, and **DevOps best practices**. Eager to leverage a unique blend of hands-on technical expertise and modern software development methodologies to **manage AWS cloud infrastructure** and implement reliable, scalable solutions for the K-12 education software platform at Eduphoria.

Technical Skills

Category	Skills
Cloud & DevOps	AWS (EC2, S3, VPC, IAM, CloudFormation), CI/CD (GitHub Actions, Jenkins/CodePipeline concept), Docker, Infrastructure as Code (IaC) concepts, Linux/Unix
Automation & Scripting	Python, Bash, PLC Programming (Ladder Logic, Structured Text), Industrial Control Systems, Data Acquisition
Programming & Web	JavaScript, Node.js, React, HTML5, CSS3, SQL, Git/GitHub
Quality Assurance	Software Testing, Test Case Development, Bug Tracking, Agile/Scrum
Transferable Expertise	Systems Troubleshooting, Electrical Diagnostics, Root Cause Analysis, High-Pressure Problem-Solving

Professional Experience

Senior Maintenance Engineer / Automation Specialist (Consolidated)

Various Companies, USA | 2007 – Present

- Applied 18+ years of intensive experience in maintaining, diagnosing, and optimizing complex industrial and manufacturing systems, demonstrating a deep understanding of system reliability and uptime—core principles of **DevOps**.

- Expertly performed **electrical troubleshooting and diagnostics** on high-voltage and low-voltage systems, quickly identifying and resolving root causes of failures to minimize downtime.

- Designed, programmed, and maintained **PLC (Programmable Logic Controller) systems** and other **Industrial Automation** and **control systems**, directly applying **logical thinking** and structured programming principles to automate processes.

- Managed and maintained critical infrastructure in high-pressure manufacturing environments, requiring meticulous attention to detail and a proactive approach to system health and monitoring.
- **Bridging to DevOps:** The experience in designing and maintaining automated control loops and systems (PLC) is analogous to building and maintaining **CI/CD pipelines** and **cloud infrastructure**—both require systematic, automated, and reliable process management.

Relevant Projects

1. Cloud-Deployed Full Stack Application (Simulated CI/CD)

- **Description:** Developed a full-stack web application (e.g., a task manager or inventory system) and practiced deploying it to a cloud environment.
- **Technologies:** React, Node.js, Express, PostgreSQL, **AWS EC2/S3**, **GitHub Actions (CI/CD concept)**.
- **Contribution:** Configured a basic **CI/CD pipeline** using GitHub Actions to automate the build and deployment process to an **AWS EC2** instance, demonstrating foundational knowledge of **DevOps methodology** and continuous delivery.

2. Infrastructure as Code (IaC) Simulation

- **Description:** Developed a small project to provision and manage simple cloud resources using an IaC tool (e.g., a basic web server and database).
- **Technologies: AWS CloudFormation** (or Terraform concept), YAML/JSON.
- **Contribution:** Created a **CloudFormation** template to define and provision a secure virtual private cloud (VPC) with an EC2 instance and an S3 bucket, showcasing the ability to **manage AWS cloud infrastructure** through code.

Education & Certifications

- **QA Software Tester Certificate** - JanBask Training (2025)

- **Full Stack Web Development Bootcamp Certificate** - Georgia Institute of Technology (2023)
    - *Focus on modern web technologies, software development lifecycle, and Git version control.*

- **Bachelor of Science in Software Engineering** - University of Phoenix (2016)

- **Technical Engineering in Electromechanical** - DRC (Democratic Republic of Congo)