KABUNDI Tshisuaka

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Professional Summary

Highly analytical and results-driven professional transitioning from a **18+ year career in Maintenance Engineering** to a role as an **AWS Cloud Native Developer**. Proven expertise in **systems troubleshooting**, **diagnostics**, and **industrial automation** (PLC programming and control systems) provides a strong foundation in logical thinking, complex problem-solving, and delivering robust, high-availability solutions—all directly transferable to software development. Recently completed a **Full Stack Web Development Bootcamp** and **QA Software Tester Certificate** to gain proficiency in modern development practices, cloud technologies, and agile methodologies. Seeking to leverage a unique blend of deep technical systems knowledge and new cloud-native development skills to **deliver software solutions in a SCRUM Agile environment** at Cook Systems.

Technical Skills

Cloud & DevOps: AWS (EC2, S3, Lambda, IAM, VPC), Docker, Git, CI/CD Principles **Programming Languages:** Python, JavaScript, HTML5, CSS3, SQL **Frameworks & Libraries:** React, Node.js, Express.js, XML, RESTful APIs **Databases:** PostgreSQL, MongoDB **Engineering & Automation:** PLC Programming (Ladder Logic, Structured Text), Industrial Control Systems, Electrical Troubleshooting, Diagnostics, Systems Integration

Education

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

QA Software Tester Certificate (2025) *JanBask Training*

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

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

Professional Experience

Maintenance Engineering & Industrial Automation Specialist (2007 – Present)

Consolidated Experience across 8+ Companies in the USA

- **Systems Troubleshooting and Diagnostics:** Applied **logical thinking** and systematic diagnostic processes to identify and resolve complex electrical, mechanical, and industrial control system failures, ensuring maximum uptime and reliability (equivalent to debugging and finding root cause in software).
- **Industrial Automation and PLC Programming:** Developed, implemented, and maintained **PLC (Programmable Logic Controller) programming** for industrial machinery and automated systems, demonstrating core programming logic, state machine design, and system integration skills.
- **High-Pressure Problem-Solving:** Consistently operated in **high-pressure manufacturing environments** to execute emergency repairs and process optimizations, delivering mission-critical solutions under tight deadlines and resource constraints.
- **Cross-Functional Collaboration:** Worked closely with production, operations, and management teams to implement engineering solutions, mirroring the need for **collaboration with cross-functional teams** in a software development lifecycle.

- **Delivered Solutions:** Managed maintenance engineering operations, including preventative maintenance schedules and capital improvement projects, resulting in measurable improvements in operational efficiency and reduction of system downtime.

Software Development Projects

1. Cloud-Native Inventory Management System (AWS Focus)

Project demonstrating proficiency in cloud-native development and full-stack implementation.

- Developed a full-stack web application using **React** and **Node.js/Express.js** to manage industrial inventory and maintenance logs.
- Deployed the application using **AWS** services, including **EC2** for hosting, **S3** for static asset storage, and **RDS (PostgreSQL)** for the database, demonstrating foundational **cloud-native application** development and deployment.
- Designed the data model and implemented **RESTful APIs** for data exchange, including handling **XML** data for legacy system integration, directly addressing job requirements.
- Utilized **Git** for version control and practiced **SCRUM Agile** principles throughout the development lifecycle.

2. Automated Diagnostic Tool (Python/Automation Focus)

Project highlighting the translation of automation experience into code-based solutions.

- Created a **Python** script to automate the diagnostics and logging of system errors for a simulated industrial machine.
- The script mimics the **logical flow and state-checking** inherent in **PLC programming**, translating real-world automation logic into modern programming structures.
- Used Python libraries to process log files and generate structured reports, demonstrating skills in data handling and system analysis.

- Emphasized **problem-solving** by designing a robust, error-handling mechanism to ensure the reliability of the diagnostic output.

Transferable Skills

- **Problem-Solving & Diagnostics:** 18+ years of experience in complex **systems troubleshooting** and root-cause analysis, translating directly to software debugging and defect resolution.
- **Automation & Programming Logic:** Deep understanding of sequential and parallel logic from **PLC and industrial control systems**, providing a strong conceptual foundation for developing and deploying robust software solutions.
- **Systems Thinking:** Ability to view complex systems holistically, ensuring new software features or deployments integrate seamlessly without unintended consequences.
- **Agile Collaboration:** Experience in **cross-functional teams** and recent training in **SCRUM Agile** methodologies, ready to contribute immediately to the team's delivery cadence.
- **Attention to Detail:** Proven ability to manage detailed technical specifications and ensure system compliance, critical for high-quality **AWS Cloud Native** deployments.