

# HILLARY ARINDA

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## FULL STACK SOFTWARE DEVELOPER

Innovative Full-Stack Java Software Engineer with 6+ years of experience in developing and enhancing web applications with a strong focus on performance, scalability, and security. My expertise spans across Java, Spring, React.js, Vue 3 and embedded IoT integration, and I have a solid background in the energy distribution market space, and smart grid systems. Skilled in MuleSoft for seamless API management, and experienced with Apache Kafka, Apache Spark, and AWS. Adept at requirements gathering, design, coding, deployment, and leading cross-functional teams. Seeking to leverage technical and leadership skills in a challenging software development role.

### CORE SKILLS

System Design and Architecture • SOLID Principles • Test-Driven Development • Performance Optimization  
• CI/CD • Object-Oriented Programming • Service-Oriented Architecture

**Languages:** Java, JavaScript

**Web:** HTML, CSS, Chakra UI, Bootstrap, jQuery, React.js, Node.js, Angular

**Web Services:** REST

**Web/App Servers:** Apache, Tomcat

**Frameworks:** Spring Boot, Spring Data JPA, Spring Cloud, Spring MVC, Spring Security, Hibernate, Express.js, Junit, Mockito

**Databases:** PostgreSQL, MySQL, MS SQL Server, Cassandra, Firebase

**Design Patterns:** Singleton, Observer, Factory Method, Abstract Factory, Adapter, Facade, Command, Microservices

**SDLC:** Agile / Scrum, Waterfall, Kanban, Prototype

**Tools:** Maven, Git, Eclipse, IntelliJ, Visual Studio, VS Code, Node-red, Arduino, MuleSoft, Apache Kafka, Apache Spark

**Platforms:** Windows, Linux, OSX, Docker, IBM Cloud (BlueMix), Amazon Web Services (AWS),

**Application/Software:** AppSheet

### PROFESSIONAL EXPERIENCE

#### UMEME LIMITED, Kampala, Uganda • 01/2021 – 08/2023

Largest Electricity Distribution company in Uganda.

##### Senior Full Stack Software Engineer

Led key software development projects that enhanced system efficiencies and client trust through innovative technological solutions:

- Spearheaded the development of the automated new customer connection management system using Angular and Spring Boot, enabling real-time job assignments, meter allocation, and data submission for field technician enhancing operational efficiency and customer satisfaction.
- Utilized MuleSoft, RESTful APIs and Java Spring Boot in designing UMEME's CRM system integration to automate meter setup, reducing vending initiation time from 26 hours to under a minute, optimizing workforce allocation, and cutting costs.
- Managed UMEME's reinspection project within Agile/Scrum framework, using React and Java Spring, with OCR tech for ID digitization, cutting errors to near zero, eliminating fraud, and achieving a 5% ROI on \$1M investment.
- Architected a web-based meter appraisal and management system using the Spring Framework and ReactJS, reducing the meter processing time by 50% and significantly boosting stakeholder visibility and real-time data access.
- Orchestrated a comprehensive engineer training program with Git, Docker, Kubernetes, and Jenkins, increasing team productivity by 30% and streamlining the project delivery process.

#### UMEME LIMITED, Kampala, Uganda • 04/2017 – 01/2021

##### Full Stack Software Developer

Designed and developed foundational software solutions.

- Designed and maintained robust database systems with MySQL and Cassandra, optimizing performance and management through advanced indexing and tailored stored procedures, resulting in a 20% enhancement in query execution times.
- Spearheaded UMEME's meter reading digitization, employing React and Spring Boot, with geofencing and mobile imaging, cutting the cycle from five to two days, enhancing efficiency, customer trust, and cashflow.
- Integrated MuleSoft for seamless API management and integration, ensuring robust connectivity between various enterprise systems and enhancing data flow and system interoperability.
- Led a pilot project for an automated power theft detection system utilizing machine learning, Apache Kafka, Apache Spark, and Power BI, which identified anomalies in energy consumption and improved fraud detection accuracy from 10% to 40%.

**Technologies Used:** *Hibernate, Spring MVC, Spring Data JPA, Spring Cloud, RESTful, HTML5, CSS3, jQuery, Chakra UI, PostgreSQL, VSCode, Swagger APIs, Apache Kafka, IntelliJ, Angular, Kubernetes, MuleSoft*

#### **LUMINGO AB, Villa Bellona, Sweden • 01/2015 – 12/2016**

Smart grid company developing solutions adapted to the needs of unreliable grids in Africa and Asia.

##### **Embedded Systems and Software Engineer**

Spearheaded SCADA and load monitoring unit development, improving electricity distribution efficiency.

- Engineered and coded firmware for IoT-enabled Load Monitoring Units using C++ and CodeWarrior IDE, leading to the deployment of over 200 units across Uganda and India and enhancing energy monitoring efficiency by 30%.
- Pioneered the development of the LuminGo SCADA system using NodeRed, ReactJS, Firebase, AWS, and IBM Cloud, enhancing data processing and visualization speeds by 25% for Load Management Units on the electrical mini grid.
- Designed a ZigBee-based communication network, integrating Load Management Units with a Raspberry Pi gateway, which improved data transmission reliability by 40%.
- Streamlined the remote energy infrastructure's operation, implementing a monitoring interface that resulted in a 20% reduction in energy loss and a 15% increase in grid stability.
- Developed a bespoke diagnostic tool for Lumingo's SCADA system, enabling real-time monitoring of Load Management Units, resulting in early anomaly detection, proactive maintenance, and reduced operational disruptions, prolonging the electrical grid components' lifespan.

**Technologies Used:** *Java, GIT, VS Code, NodeJS, XCTU, HTML, CSS, Arduino*

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### **ACADEMIC PROJECTS**

**Maharishi International University (2024) – Mini-Property Management System:** Led front-end development for real estate web app, focusing on intuitive UI and responsive design using React.js. Integrated RESTful services, secure cloud deployment (Spring Framework), and employed a tech stack including Java, Spring, Node, React, Chakra UI, GIT, MySQL, and PostgreSQL to facilitate seamless user engagement.

**Maharishi International University (2023) – Resort Management System (RMS):** This system facilitated online reservations and payments for resort accommodations, incorporating RESTful microservices and Spring technologies (Spring MVC, Spring Boot, Spring Data JPA, Spring Cloud Services). My role in a team of 5 involved domain-driven design for UML class diagrams, architectural planning for a scalable and secure system, and implementing security features like Spring Security with JWT. Utilized Java, MySQL, Spring MVC, Spring Boot, Spring Data JPA, Spring Cloud, Microservices, Kafka, RESTful.

### **EDUCATION**

**Master of Science in Computer Science      August 2023 – April 2026**

*(In progress via distance education; expected completion 04/2026)*

Maharishi International University, Fairfield, Iowa

**Bachelor of Science in Electrical Engineering      August 2010 – January 2015**

Makerere University, Kampala, Uganda