JAMES BALIMUNSI

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FULL STACK JAVA DEVELOPER

Full Stack Software Engineer with over 6 years of experience in developing and advancing enterprise applications from conception to deployment in agile settings resulting in highly flexible, secure, and scalable applications within the energy service sector. Well-versed with the Software Development Life Cycle from requirements gathering and analysis, design, coding, testing, and deployment. Proficient with the use of technologies including Java, Spring Boot, Hibernate, React, Node.js, MongoDB, Git, and REST APIs to enhance the security, resiliency, and performance optimization of software applications.
Proactive in fast-paced environments and demonstrated ability to effectively lead teams, open to learning new emerging technologies to drive innovation and aid the achievement of the overall business objectives.

● System Design and Architecture ● SOLID Principles ● Object-Oriented Programming (OOP) ● Test Driven Architecture (TDD) ● CI/CD ● Data Structures & Collections ● Database Development ● ACID Principles ● Event Driven Architecture ● Service Oriented Architecture (SOA) ● Algorithms ● Design Principles and Patterns ● Microservices ● Data Caching ● Project Management

Programming language: Java, JavaScript
Web: React.js, HTML5, CSS 3, Bootstrap, Node.js, Tomcat/ Apache
Web Services: REST
Frameworks: Spring (MVC, Boot, Data JPA, AOP, Security, Cloud, Dependency Injection), Hibernate, Express
Database technologies: PostgreSQL, MySQL, MongoDB
Software Development Lifecycle: Agile / Scrum, Waterfall, Kanban, Prototype.
Design Patterns: MVC, Singleton, Prototype, Observer, Abstract Factory, Session Factory
Tools: Maven, IntelliJ IDEA, Visual Studio Code, Eclipse, Git, Star UML, Postman, Kafka, ActiveMQ, Docker, Kubernetes
Platforms: MacOS, Windows,

PROFESSIONAL EXPERIENCE

*CAREER NOTE: Completed on-campus studies and currently taking distance education courses to complete a **Master's Degree in Computer Science** (Available for full-time, W-2 employment).*

MINISTRY OF ENERGY AND MINERAL DEVELOPMENT, Amber House Kampala, Uganda   ● 07/2019 – 08/2023 A government organization that establishes, develops, strategically manages, and safeguards Energy and Mineral Resources in the country.
Full Stack Software Developer
Design and Development Digital Solutions: Participated in designing, developing, testing, and deploying digital solutions for Electricity Utility providers.

- Field Operations Optimization: Leveraged Java and the Spring Framework to innovate field operations tools, automating complaint registration and resolution updates, leading to a 20% increase in customer satisfaction.
- Incidence Management System: Developed an incidence management monitoring system using React, Spring Framework and MongoDB, which streamlined the complaints resolution process and cut resolution times by 25%.
- Database Design & Performance: Implemented MySQL and MongoDB database solutions, integrating Hibernate for ORM, which resulted in a 25% faster query response time and substantially improved application performance.

- Energy Metering Inspection and Auditing Process: Revamped the energy metering inspection and data collection processes by digitizing the Metering Audit process using React and Spring Framework to ensure a seamless integration of frontend and the backend of the solution. Used Spring Data with JPA/Hibernate for efficient ORM, interacting with a SQL database. The solution improved the integrity of the Meter Audit data, led to focused and timely resolution of metering anomalies, reduced energy losses by 5% and increased revenue for the utility service provider.
- Cross-Functional Team Collaboration: Facilitated project scoping and requirements alignment using Agile methodologies, contributing to a 15% decrease in development time and a subsequent 20% increase in post-release user satisfaction.
- Code Evaluation & Testing: Conducted code evaluations, including unit and integration tests leading to a 15% decrease in critical bug reports and a 20% uplift in application reliability for enhanced user satisfaction.

Technologies Used: *Java, JavaScript, Spring Boot, React, MySQL, HTML, CSS, Git, Tomcat, Maven, MongoDB, Hibernate, Express, Bootstrap*

UMEME LIMITED 23841, Kampala, Uganda ● 09/2014 – 06/2019 Leading Electricity Distribution Utility in East Africa

Software Engineer
Actively participated in designing, developing, testing, and deploying internal digital solutions including Integrating payment gateway for post-paid bills on the Umeme Application, Digitization of the New Customer Onboarding process, Digitization of Metering Audits and Integration of the Connection Inspections and Surveying process into the New Customer Onboarding Application.

- Developed of a user-centric digital application platform, by leveraging the Spring Framework to implement RESTful API to streamline the onboarding of new customers, leading to a 30% reduction of the new customer onboarding time cycle and connection waiting days.
- Designed and implemented a real-time monitoring system for field operations, leveraging Java and the Spring Framework to reduce incident resolution times by 25% and improve service delivery, operational efficiency, and customer service satisfaction index from 60% to 90%.
- Optimized and improved the digital payment channel, enabling seamless post-paid bill transactions via the Umeme Customer Application thus enhancing customer convenience.
- Resolved development impediments by leveraging the completeness of the project documentation and ensuring seamless project progression. This resulted into to a 20% reduction in project(s) completion period.

Technologies Used: *Java, JavaScript, Spring Boot, React, MySQL, HTML, CSS, Git, Tomcat, Maven, MongoDB, Hibernate, Bootstrap, REST*

ACADEMIC PROJECTS
Property Management Application, MIU (2024): The Property Management Web Application was a comprehensive platform built to streamline property management tasks for real estate professionals, property managers, and property owners and customers. Utilized Spring Boot, Hibernate, ReactJS, Spring JPA, MySQL, Tomcat, REST, PostgreSQL

Resort Management System, MIU (2023): The Resort Management System was a comprehensive application designed to streamline the operations of a Resort Hotel. It encompassed various modules to manage different aspects including administration, reservation management, customer management, item, and product management providing an integrated solution for operations and effective management of the resort. Utilized Java, Spring Boot, Spring JPA, Hibernate, ActiveMQ, MySQL, MongoDB, Maven, Docker, Tomcat, Mockito, Spring Actuator with Prometheus, Grafana, REST

EDUCATION
Master of Science in Computer Science in Computer Science
(In progress via distance education; expected completion 04/2026)
Maharishi International University, Fairfield, Iowa
Key Courses: Fundamental Programming Practices, Modern Programming Practices, Web Application Programming, Enterprise Architecture, Web Application Architecture, Algorithms

Bachelor of Science in Electrical Engineering
Makerere University, Kampala, Uganda