

# Markian Mumba

Software Engineer

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## Summary

Proactive and results-driven Software Engineer with expertise in backend development ecosystems. Proven ability to design and deploy scalable, user-centric applications, focusing on clean architecture, maintainability, and exceptional user experiences. Experienced in leading projects from conception to production, delivering secure and efficient solutions.

## Technical Skills

React.js, Next.js, TypeScript, Java (Spring Boot), Python, Django, Docker, JavaScript (Node.js), Database: Postgresql, Tools & Platforms: Git, Linux, Postman, Figma

## Experience

### Backend Engineer | [Kyosk](#)

- Developed scalable microservices architecture using Spring Boot for payment processing systems, improving transaction reliability and system performance
- Implemented comprehensive testing protocols with JUnit and Mockito, maintaining a minimum of 80% unit test coverage across all services
- Utilised Docker for containerisation, ensuring consistent deployment across development and production environments
- Authored detailed Technical Requirements Documentation (TRD) for payment integrations, reducing implementation errors by standardising workflow processes

## Projects

### Ponderarium | Backend Developer

Live Demo - [link](#) |

- Built a Django REST API for a curated quote repository, enabling seamless content delivery and management
- Designed a Postgresql database with structured categories, enhancing content organisation and retrieval efficiency
- Implemented full-text search and advanced filtering, improving user experience and content discovery
- Developed JWT authentication for user accounts and submissions, ensuring platform security and content integrity
- Created RESTful endpoints for future Next.js integration, facilitating scalable frontend development
- Optimised performance with pagination, caching, and query tuning, resulting in faster response times and improved system reliability

### BolloApp | Full Stack Developer

Live Demo - [link](#) |

- Engineered a smart waste management platform using Next.js and Spring Boot, optimising collection scheduling and enabling real-time tracking for service providers
- Implemented MTN and MoMo payment gateway integrations using React Query, resulting in secure and frictionless service transactions
- Developed an automated notification system with Spring Boot, improving customer engagement through timely pickup reminders and confirmations
- Built a responsive analytics dashboard with React.js, enabling real-time waste collection monitoring and more efficient schedule management
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### RentItUp | Full Stack Developer

Live Demo - [link](#) |

- Architected a comprehensive equipment rental platform with Next.js frontend and Spring Boot backend, serving active users with 500+ equipment listings
- Implemented secure payment processing and multi-factor authentication system using JWT and OAuth, enhancing platform security and user trust
- Designed RESTful APIs with Spring Boot, optimising equipment listings retrieval, user profile management, and booking operations
- Created responsive, intuitive interfaces with Next.js and TypeScript, achieving high user satisfaction metrics and reducing bounce rates
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### Oskaloosa Computer Solutions | Software Developer

Live Demo - [link](#) |

- Designed a dynamic website using Next.js and Contentful CMS, resulting in significantly increased site traffic and improved user engagement
- Integrated Contentful headless CMS with Next.js, enabling non-technical staff to manage product catalogue and content updates without developer involvement
- Implemented robust email functionality using NodeJS, enhancing customer communication efficiency and response times

### Project Tracker | Full Stack Developer

Live Demo - [link](#) |

- Designed and developed an end-to-end MVP platform using React Vite and Golang, facilitating efficient student-lecturer project supervision
- Engineered document management system with role-based access control utilising JWT Authentication, ensuring secure document handling
- Developed an intuitive dashboard interface with React.js, enabling lecturers to manage multiple student supervisees efficiently
- Implemented automated email notification system using Golang, streamlining document submissions and review processes

## Education

Bachelor of Computer Science

Riara University | 2020 - 2024

Web Development Certificate

Moringa School | March - October 2019