Markian Mumba

Software Engineer

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Portfolio: link

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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

Blazor Movie App | Frontend Developer
Live Demo - link

- Built a feature-rich movie discovery platform using **Next.js** and **shadcn/ui**, integrating the **TMDB API** to display trending, popular, and upcoming movies
- Designed intuitive interfaces for movie detail views, showcasing cast, production companies, and metadata with clean and responsive layouts
- Implemented a **content-based recommendation algorithm** to suggest similar movies based on user browsing activity
- Focused on modern UI/UX best practices and component-based design to ensure scalability and high usability across devices
- Hosted it on a VPS with CI/CD to make the changes to the server

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
- Hosted on VPS and added CI/CD to push new code to the server

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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estc | 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