EBED MELECK MAKOSO

IT Programmer | Full Stack Developer | Software Engineer | Data Management

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📍 Kinshasa, Ngaliema, DRC

EXPERIENCE

Full Stack Developer

Ukuaji Technologies

📅 11/2024 - Present   📍 Nairobi, Kenya (Remote)

- Maintained, debugged, and updated existing applications to ensure optimal stability and maximize performance.
- Actively contributed to the design and implementation of comprehensive, clear, and user-friendly documentation to facilitate adoption and effective use of developed tools.
- Oversaw the deployment of applications on DigitalOcean servers, providing continuous monitoring to ensure optimal operation, proactively detecting potential issues, and implementing necessary corrective actions.
- Led the migration of infrastructure and services from DigitalOcean to Microsoft Azure, including:
- Setting up CI/CD pipelines via Azure DevOps.
- Migrating storage from AWS S3 to Azure Blob Storage.
- Optimizing costs, performance, and security of the infrastructure.
- Ensured service continuity during the transition.
- Supervised and mentored junior developers, conducted code reviews, and promoted good software engineering practices.
- Developed the Sass Mlinzi security platform: designed and implemented a SaaS solution enabling organizations to manage visitors, security agents, alerts, and access through a web interface and two mobile applications (users & agents). - Served as the technical lead from conception to development of a security SaaS platform managing visitors, security agents, alerts, and access. - Developed a web interface along with two mobile applications (users & agents), with a focus on scalability, security, and performance. - Contributed to architectural decisions, industrialization, and cloud deployment of the solution.
- KotoMoto Platform – Insurance & Mobility - Designed and implemented the KotoMoto platform, allowing motorcyclists to subscribe to insurance, accumulate loyalty points with partner stations, and engage with a complete digital ecosystem. - Developed a dedicated application for gas station agents and a robust back-office, integrating management rules, customer relations, and subscription management.
- Pelekapp. - Developed client and admin interfaces in React/TypeScript, with state management via Redux and REST API integration for products, invoices, and deliveries. - Implemented modals, filters, and pagination with performance and responsive UX optimizations. - Integrated a roles and permissions system to secure access to features. - Collaborated with the product team to transform specifications into intuitive interfaces.

SUMMARY

Senior Full-Stack Developer (React/Node.js) with over 5 years of experience in designing, developing, and deploying scalable and high-performance SaaS web applications. Specialized in React.js and TypeScript for intuitive and reactive user interfaces, with strong backend expertise in Node.js/Express and a deep understanding of APIs, scalability, and DevOps best practices. I contribute end-to-end to the product lifecycle, from technical design to production, ensuring code quality, maintainability, and performance while collaborating effectively with product, design, and backend teams.

KEY ACHIEVEMENTS

💎 Ukuaji – B2B/B2C E-commerce Platform

Developed an innovative platform connecting suppliers and merchants with inventory management, shop creation, M-Pesa payments, and a multi-profile interface.
Stack: React, Redux, Context API, Next.js, Node.js (TS), RabbitMQ, WebSocket, MySQL

💎 Patrimoine Tracker – National Asset Tracking

Web/mobile development for managing movable and immovable properties, with synchronization across platforms and efficient storage.
Angular, React Native, Zustand, Express.js, Redis, MySQL

💎 Health Financing – Health Sector Budget Tracking

Application for public health financing management, including budgeting, tracking, and resource visualization.
Stack: React TS, Redux, Context, WebSocket, Express.js, PostgreSQL | Used by government institutions

💎 Sass Mlinzi – Physical Security SaaS Platform

Designed a complete SaaS solution for visitor management, alerts, and security agents, featuring a web interface and two mobile apps (for agents and users).
Stack: Next.js, Redux, React Native, NestJS, PostgreSQL

💎 BHIMA ↔ DHIS2 – Health Interoperability

Integrated an automated data exchange service between BHIMA and DHIS2, enhancing the centralization and consistency of health information.
Impact: Smooth synchronization and optimized tracking within health facilities

EXPERIENCE

IT Programmer

IMA World Health

📅 11/2023 - Present   📍 Kinshasa

- Maintained, debugged, and updated BHIMA software and the BHIMA STOCK mobile application, ensuring stability and performance optimization.
- Contributed to the design and implementation of user documentation, ensuring its clarity and accessibility to facilitate the use of developed tools.
- Managed the deployment of BHIMA servers and the installation and configuration of IT networks in General Referral Hospitals (HGR), adhering to strict security and reliability standards.
- Wrote detailed technical reports outlining progress, encountered challenges, and implemented solutions to document and improve processes.
- Established an interoperability service between BHIMA and DHIS2, facilitating data exchange between the two systems for integrated health information management.
- Developed an interface to retrieve data collected via ODK and automatically send aggregated data to DHIS2, ensuring effective synchronization of field data.
- Provided technical support to users for resolving technical incidents, network outages, and other system-related issues.
- Trained provincial teams and health zones on the use of ODK for the distribution campaign of Insecticide Treated Nets (ITNs) in Maniema, ensuring reliable data collection.
- Maintained, debugged, and updated EPRF software (process request finance).
- Designed the document tracking module in EPRF.
- Managed campaign mass data.

Full Stack Developer

Updev

📅 02/2022 - 07/2023   📍 Goma, Democratic Republic of the Congo

- Deployed a new version of the Updev Challenge application, a platform dedicated to technology project competitions.
- This version includes an administration section for comprehensive platform management, along with an intuitive user application.
- Development of the Ukuaji application, an innovative platform that connects inventory suppliers with merchants looking to create online stores.
- An administration section for overall platform management and oversight.
- A Suppliers section that allows providers to add, manage, and monitor their inventory online.
- A Merchants section giving users the ability to create online stores using inventory available from suppliers.
- A Shop section enabling customers to purchase products with integrated payment solutions such as M-Pesa Safaricom.
- The application is currently in beta and deployed exclusively in Kenya.
- Maintenance, updates, and optimization of existing projects to ensure stability, security, and optimal performance.
- Development of the Ada Exchange application, a mobile app designed to facilitate the exchange of ADA (Cardano cryptocurrency) into fiat currencies, including USD, through Mobile Money services.
- Deployment of applications on servers, ensuring high availability, enhanced security, and smooth operation for end users.

TRAINING / COURSES

Web Development
Open Classroom

Ethical Hacking
Udemy

SQL for Data Scientists
Coursera

Deep Learning AI
Coursera

LANGUAGES

French
Native   ●●●●●

English
Intermediate   ●●○○○

REFERENCES

Bruce Mbayo
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Patient Kasumba
patient.kasumba@equitybcdc.cd

Nicolas Descampe
nicolas@descampe.me

EXPERIENCE

Freelance Developer

Freelance

📅 2019 - Present 📍 Kinshasa

- Development of a software solution for tracking health sector funding, integrating program-based budgeting and resource mapping.
- Application designed with React TS, Express.js, and PostgreSQL to ensure effective management and clear visualization of allocated financial resources.
- Asset management application for tracking movable and immovable properties as well as inventories.
- Utilized by the Ministry of Public Health, developed with Angular PWA, Express.js, Redis, and MySQL.
- Mobile version of the Asset Tracker application, developed with React Native.
- Development of an inventory and billing management application for a local SME, using React TS, Express.js, and PostgreSQL.
- Development of a business management application for a local SME with React TS, Express.js, and MySQL.
- Marco Auto mobile application available on the Play Store, developed with React Native.
- Website for the organization CongoAutisme.org, created using WordPress.
- Completion of multiple websites for international clients on Upwork, primarily using WordPress.

EDUCATION

State Diploma in Biology-Chemistry

Jean Jacque Rousseau College

📅 2015 📍 Kinshasa

Medical Biology

Simon Kimbangu University

📅 2015 - 2017 📍 Kinshasa