Mukisa Ivan

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GitHub: https://github.com/mukisaivan/

Portfolio: https://mukisaivanportfolio.netlify.app/

Summary

I am a Skilled Software developer and Data Scientist with 2 years of experience in building efficient, scalable, and user-friendly mobile and Web and Machine Learning applications that solve real world problems. Proven ability to deliver high-quality software on time and within budget. Strong background in mobile app development, UI/UX design, backend integration. Committed to staying up-to-date with the latest industry trends and technologies.

Technical Skills

- Languages: Dart, Java, JavaScript, TypeScript, Python, Java, C, HTML, CSS

- Frameworks: Flutter, React, NextJs, NodeJS

- Databases: Firebase Firestore, Firebase Database, MongoDB, PostgreSQL, Prisma

- Problem Solving: Data Structures and Algorithms

- Tools & Platforms: Git, GitHub, Firebase, Google Cloud, VS Code, Android Studio

- Other Skills: UI/UX Design, RESTful APIs, JSON, Push Notifications, GoogleAdmob

Professional Experience

Flutter Firebase Developer

Lexitech Solutions - Uganda

June-August 2023 University Internship Period

- Developed AgriSonic application using Flutter and Firebase with Machine Learning models that enabled farmers to detect crop diseases and also fetch real-time market trends from the database.

- Designed and implemented efficient and reusable UI components, ensuring a consistent user experience on all Android versions.

- Integrated Firebase services such as Firestore, Authentication, and Storage to provide robust backend support.

- Collaborated with a team of designers, product managers, and other developers through conducting code reviews to deliver high-quality software solutions.

Education
Bachelor of Science in Computer Science

Makerere University - Kampala, Makerere

Projects

- ❖ **Malnutrition Detection Application**
  Tech stack: Flutter, Firebase, CNN, YOLO,

- Developed a mobile application to assist parents in detecting malnutrition in children under 5 years.
- Utilized **CNN classification models** for precise classification of malnutrition cases, and **YOLO models** for real-time object detection tasks.
- Built the app using **Flutter** for a seamless, user-friendly interface and **Firebase** for real-time database management and user authentication.
- Included an additional feature allowing parents to chat and discuss emerging malnutrition issues, fostering a supportive community.
- Deployed and optimized models through **quantization**, ensuring efficient performance on mobile devices while maintaining high accuracy.

GitHub link: https://github.com/malnudetect/maldex

Demo: https://drive.google.com/file/d/17vyrHhxH_aG69EtPPodzlSrifZ4rDC0s/view?usp=drive_link

- ❖ **Fully Fledged E-commerce Web Application**
  Tech stack: Jet.js, React, TypeScript, Stripe, MongoDB, Prisma

- Developed a comprehensive e-commerce platform with functionalities like product browsing, shopping cart, and user authentication for both sellers and buyers.
- Visualized sales data for sellers over past days, using **graphs and tables** to provide insights into sales trends and performance.
- Integrated **Stripe** for secure payment processing, supporting multiple payment methods.
- Utilized **MongoDB and FireBase** for efficient and scalable database management.
- Implemented **Prisma** as an ORM to streamline database queries and interactions.
- Ensured seamless user experience through a **React** and **TypeScript** frontend.
- Managed orders, inventory, and product categorization with advanced backend capabilities.
- Delivered a fully responsive UI, optimized for both mobile and desktop platforms.

GitHub link: https://github.com/mukisaivan/zionvitenge2

Demo: https://drive.google.com/file/d/1FvUWne7x_qzdJ0CUrnyRXHhloCGuvlfc/view?usp=drive_link

❖ **Bank Queue Management Tool**
Tech stack: Flutter, Firebase, Google AdMob, Flutterwave

- Developed a mobile application to help users avoid long queues in banks by managing appointments and notifying them in real time.
- Integrated **Google AdMob** for in-app monetization and **Flutterwave** for handling premium membership payments.
- Improved user convenience with real-time notifications and streamlined appointment scheduling, significantly enhancing the banking experience.
- Utilized **Flutter** for a responsive and intuitive interface and **Firebase** for real-time data syncing and user authentication.

GitHub link: https://github.com/mukisaivan/queueingtool

Demo:
https://docs.google.com/presentation/d/1V28yPU7rsEg96pW57ET6IBx3Iyg7yKeE/edit?usp=drive_link &ouid=112856887003994312357&rtpof=true&sd=true

❖ **WhatsApp Clone Mobile App**
Tech stack: Flutter, Firebase, Firestore

- Developed a **WhatsApp clone app** using **Flutter** and **Firebase**, featuring real-time messaging for text, images, audio, and video calls.
- Integrated **Firebase Authentication** to provide secure user login and **Firestore** for storing user data and chat history.
- Implemented advanced messaging features like message replies, improving user interaction.
- Ensured real-time synchronization of chats and media, offering a seamless communication experience.

GitHub link: https://github.com/mukisaivan/whatsappclone1

Demo: **https://drive.google.com/file/d/1q3hMq5mafjL0qfKI8Vj_ZDWdlzdVFKbI/view?usp=drive_link**

❖ **E-commerce Mobile App**
Tech stack: Flutter, Firebase

- Built an **e-commerce mobile app** using **Flutter** and **Firebase**, allowing sellers to post products and buyers to browse and place orders.
- Implemented key functionalities for a full e-commerce experience, including product search, cart management, and order placement.
- Utilized **Firebase** for real-time updates on product availability, order tracking, and secure user authentication.

- Designed a user-friendly interface with smooth navigation for both buyers and sellers.

GitHub link: https://github.com/mukisaivan/zion

Languages

- English, Luganda

Other Interests

- Machine Learning and Artificial Intelligence

-Embedded Systems