

# CHARLES ABUGA

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## SKILLS

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**Frontend:** Javascript, Dart

**Backend:** Python, Golang

**Frameworks:** React, Flutter, Django

## PROJECTS

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### Flutter E commerce Web App

- Developed an ecommerce web application using Flutter Framework that easened shopping experience for a local business.
- Integrated the app with Firebase which by default handles secure user authentication and analytics for in app event tracking to allow rectification of inefficient events and enhance optimization.
- Utilized BloC state management tool to separate business logic from the User Interface code for an overall clean code experience for easy comprehension and reusability among developers.

The features above decreased app development time by 45% allowing it to be ready in time and increased sales in the business by 30%.

[E commerce Web app](#)

### React Webapp

- Developed a web app for a local NGO that enabled it to keep track of their projects and showcase them.
- Implemented Mpesa Daraja API for STK push to simplify the donation process for willing contributors to safely and conveniently send their donations. This reduced donation time by 50% which made it convenient.

Through the web app the NGO got almost double the funding due to the streamlined donation process and enabled their cause to reach a wider audience to get a diverse donor base.

[RCCWE React Webapp](#)

### Farm Up Application

- I used flutter to create an application to help farmers manage their livestock including reminders on daily feeding schedule and vaccinations among many other functionalities.
- Integrated BloC for state management, firebase for the backend and Gemini API to allow farmers to ask gemini various farming related questions.

The application will allow farmers to save time used for manually recording livestock produce and focus on other farm activities as the application allows for easy data input and accurate reminders which saves the farmer's time by 30%.

[Farm Up](#)

## **PUBLICATIONS**

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[Abuga, C. \(2024\). Dart Fundamentals: Constructors in Dart. Medium](#)

[Abuga, C. \(2024\). Making http Requests in Flutter using BloC. Medium](#)

## **EDUCATION**

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2021 - present:	KCA University Bsc. Applied Computing
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