Joseph Mawule Mensah

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EDUCATION

Central University
Feb 2023 – present

Bachelor of Science in Computer Science
Accra, Ghana

- **Relevant Coursework:** Open Source and System Administration, System Analysis and Design, Database Concepts I and II, Java, Object-Oriented Programming, Visual Basic .Net, C++, Discrete Mathematics, Statistics and Probability, Numerical and Linear Algebra.

PROJECTS

Flash Chat App – Real-Time Messaging with Firebase
Jan 2025 – Feb 2025

- Developed a **Flutter**-based real-time messaging app, enabling seamless instant messaging with custom animations using Animation Controller and Hero Widget for an engaging, cross-platform UI/UX.
- Integrated **Firebase** Authentication and Cloud Firestore with Streams for secure user login and real-time message synchronization, ensuring reliable and dynamic conversation feeds.
- Optimized performance with Firestore caching and adhered to Material Design principles, reducing latency by ~15% and enhancing accessibility with semantic labels for diverse users.

Top Grow Mobile Application
Mar 2025 – May 2025

- Developed **Top Grow**, a Flutter-based mobile application connecting Ghanaian buyers and farmers, overcoming distance and communication barriers by enabling seamless product searches, filters, and in-app calling for direct purchases.
- Implemented **CRUD operations** and **Firebase Authentication** using **Firestore** and **Provider** for state management, ensuring secure, real-time product listing updates and role-based access for farmers and buyers.
- Crafted a **user-friendly UI/UX** adhering to **Material Design**, optimizing performance with asynchronous Firestore queries and delivering accessible, responsive features for diverse users.

Curve Booking Project
Apr 2025 – present

- Collaborated with a team to build **Curve Booking**, a multi-platform solution (mobile app, web app, admin dashboard) enabling Ghanaian students to search and book university hostels and apartments.
- Developed core features of the **Flutter**-based mobile application using Dart, including user-friendly search interfaces, filterable hostel listings, and a responsive image carousel, enhancing accessibility for Android and iOS users.
- Integrated **RESTful APIs** for real-time hostel data and optimized performance with shimmer loading effects, reducing load times by ~15% and ensuring a seamless user experience.

SKILLS

Mobile Development
Flutter, Dart, Firebase (Authentication, Cloud Firestore), RESTful APIs, Provider, Riverpod, BLoC.

Web Development
WordPress (theme development, plugin integration), HTML, CSS, JavaScript.

Programming Languages
Dart, C++.

Database Management
MySQL, Hive.