Elvis Ngatia

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Mobile Engineer

Web and Mobile Engineer with 2 years of experience, adept at creating responsive designs and optimizing application performance. Key skills include Flutter, React.js, and database management. Achieved a website performance score above 90% and improved app functionality significantly in just 4 months through effective development practices.

EDUCATION

Bachelor Of Science In Computer Science
Kenyatta University • Kenya

Certificate In Web Development Technologies
KCA University • Kenya

WORK EXPERIENCE

Mobile Engineer
Jul 2024 - Present

Solutech Limited

- Contributed innovative ideas to elevate app functionality and user experience through collaborative design sessions, aligning with industry trends over a 6-month period.
- Enhanced code quality and application performance by strictly adhering to established coding standards and practices under senior developer mentorship within 6 months.
- Contributed to a collaborative environment by actively engaging in code reviews over 6 months, fostering knowledge sharing and continuous improvement.
- Enhanced application performance and reliability by identifying and resolving critical user-reported issues, leading to increased stability and user retention.
- Enhanced deployment efficiency by 30% within 4 months through the setup and maintenance of a mobile CI/CD pipeline, significantly reducing manual errors during testing.
- Improved development efficiency within 6 months by consistently integrating updated Flutter trends into the coding process and actively collaborating with senior developers.
- Led discussions with cross-functional teams to identify key areas for application improvement, enhancing overall functionality and user satisfaction within a 4-month timeframe.
- Wrote unit tests and widget tests to improve code quality and maintainability, ensuring consistent functionality during feature development and refactoring.
- Implemented Riverpod for state management, enhancing code scalability and simplifying dependency injection across complex modules.
- Integrated Firebase services (Crashlytics, Notifications, App Distribution) to improve reliability, automate app delivery, and ensure quick feedback cycles from testers.

Web developer • Part-time
Mar 2024 - Jul 2024

12th Studio

- Developed and launched a dynamic portfolio website from conception to deployment.
- Purchased and registered the domain 12thstudio.org to establish a professional online presence.
- Implemented responsive design principles to ensure seamless user experience across desktop and mobile devices.
- Utilized Reactjs to build interactive and visually appealing web pages.

- Integrated social media integration to enhance website functionality and user engagement.
- Managed ongoing maintenance and updates to ensure optimal performance and security.
- Improved performance of the website to above 90%.

Mobile Engineer • Nairobi
Jan 2024 - Jul 2024

Real Biz Digital

- Led the development of **Grow with Biz**, a self-improvement mobile application with six integrated modules: **fitness tracking, book reading, finance management, networking events, workout planning, and scheduling**.
- Designed and implemented features across the app, including **goal-setting**, **progress tracking**, and **accomplishments sections** for each module.
- Migrated the app's database to **Drift ORM**, improving data storage efficiency and management.
- Utilized **Provider** for state management, ensuring seamless interactions and data flow between app modules.
- Collaborated with UI/UX designers to create an intuitive and engaging user interface, ensuring an optimal user experience.
- Integrated **local data storage** to allow users to track their progress offline without needing an internet connection.

Mobile Developer
Apr 2023 - Jul 2023

Song Lib

An app designed to provide worship hymn books in various Kenyan languages.

- Added documentation to the code
- Improved the performance of widgets in the app
- Improved readability of the code base

PROJECTS

Qaribu
Nov 2024

The Qaribu mobile application represents a groundbreaking solution tailored to revolutionize the onboarding experience for new hires within an organization. This cutting-edge app, developed under the thematic vision of 'Adopting AI, Onboard with Ease,' seamlessly integrates advanced artificial intelligence to provide an unparalleled personalized learning path for incoming employees.

Key Responsibilities and Contributions:

- Spearheaded the entire mobile app development lifecycle, overseeing conceptualization, architecture, and execution to bring the project to fruition.
- Established and orchestrated the GitHub Actions pipeline, automating app creation and seamless integration with GitHub repositories, ensuring an efficient development process.
- Acted as the sole architect and developer behind the mobile app, integrating advanced AI functionalities to deliver personalized learning paths for new hires.
- Seamlessly integrated the app with a specialized AI model using REST APIs, enabling access to tailored guides based on meticulously trained data encompassing SOPs, company culture, team structure, and company profiles.

TransEasy
Aug 2023 - Aug 2023

In the ever-evolving world of technology, collaborative efforts are often the driving force behind groundbreaking innovations. I had the privilege of being part of a dynamic team that breathed new life into the **TransEasy** app, harnessing the capabilities of the Google Maps API. This collaborative endeavor not only transformed user navigation but also showcased the power of teamwork in software development.

TransEasy App and USSD Integration:

The TransEasy app, a cutting-edge mobile application, is designed to provide users with seamless and intuitive navigation experiences. Concurrently, an USSD (Unstructured Supplementary Service Data) application complements the TransEasy app, extending accessibility to users without smartphones. My focus primarily revolved around developing the mobile side of the TransEasy app, seamlessly integrating the Google Maps API to enhance its features.

Team Collaboration:

Collaboration was at the heart of our project. Working alongside talented developers and engineers, we leveraged our unique skill sets to ensure a holistic and comprehensive approach. While my focus was on the mobile application, I collaborated closely with team members responsible for the USSD application. Regular meetings, brainstorming sessions, and knowledge sharing were instrumental in aligning our efforts and achieving synergy.

My Contribution - Mobile Development:

Within the broader scope of the project, my role encompassed several key contributions:

- Google Maps API Integration: I seamlessly integrated the Google Maps API into the TransEasy app's mobile interface, enabling users to interact with maps, access real-time navigation, and optimize their travel routes.
- User-Friendly Interface: I designed an intuitive and user-friendly interface that allowed users to effortlessly navigate the app's features, promoting a positive user experience.
- Real-Time Updates: Leveraging the Google Maps API, I ensured that users received accurate real-time updates, enhancing the reliability of the navigation system.
- Collaborative Iterations: Regular collaboration with the USSD team ensured that the features and functionalities of both the mobile app and USSD application were aligned and complementary.

Challenges and Solutions:

Our collaborative journey was not without challenges. Coordinating the development of two distinct applications required meticulous planning and synchronization. Through open communication, shared problem-solving, and iterative development, we overcame challenges and enhanced the synergy between the two applications.

The journey of contributing to the TransEasy app underscored the significance of teamwork, collaborative spirit, and the power of combining diverse skill sets. Together, we merged cutting-edge technology with user-centric design, resulting in an innovative and accessible navigation solution. As technology continues to evolve, I am dedicated to embracing collaborative opportunities that drive positive change and enhance the lives of users worldwide.

SKILLS

Language & Frameworks: Firebase, Flutter, React, Dart

Development Practices & Tools: Agile Software Development, Git, CI/CD (GitHub Actions, Firebase App Distribution, Shorebird CI), Agile/Scrum methodologies, Software Development Lifecycle (SDLC), Code Refactoring, Testing (Unit/Widget)

Mobile & Web Development: Mobile Application Development (Android & iOS), Web Development, API Integration, State Management (Provider, Bloc, Riverpod), Riverpod), Drift ORM, Hive_CE

Design & User Focus: User Interface (UI), User Experience (UX), Responsive Design

Professional Skills: Problem Solving, Analytical Thinking, Communication, Teamwork, Adaptive Learning, Motivation