

**Clinton Sang**

**Senior Software Engineer**

**Email: [clintonksang@gmail.com](mailto:clintonksang@gmail.com)**

**Mobile: +254716813714**

## **Core Competencies**

### **Mobile Development:**

Proficient in cross-platform mobile application development using React Native and Flutter, with deep expertise in Flutter's ecosystem, including state management (e.g., Redux, Provider, Riverpod, BLoC), widget libraries, and asynchronous programming. Experienced in delivering multi-platform production applications from a single codebase, focusing on web, mobile, and desktop platforms. Skilled in creating user-friendly, responsive, and efficient applications with world-class user experiences.

### **Performance Optimization:**

Extensive experience diagnosing, preventing, and resolving performance and optimization challenges in software systems. Demonstrated ability to share insights and scale solutions effectively within teams.

### **Cloud-Based Architecture:**

Expert in cloud computing platforms such as AWS (including serverless technologies), Azure, and GCP. Skilled in building secure, high-performance, and privacy-conscious systems. Proficient in containerization and orchestration tools like Docker and Kubernetes.

### **Microservices Development:**

Proven track record in designing and implementing scalable microservices, including leading transitions from monolithic to microservices architecture.

### **Technical Leadership:**

Strong experience leading engineering teams to produce high-quality products aligned with industry standards. Skilled in mentoring team members, fostering inclusion, and promoting clear communication and visibility in a fast-paced, startup environment.

### **API Development and Integration:**

Expertise in developing and integrating RESTful APIs and GraphQL to enhance system functionality across platforms.

**Agile and DevOps Practices:**

Advanced proficiency in Agile methodologies, CI/CD pipelines, and DevOps practices to improve deployment efficiency and maintain high code quality.

**Technical Documentation:**

Proficient in creating comprehensive technical documentation, including the C4 Model and Architectural Decision Records (ADRs), to support scalable system design and decision-making processes.

**Programming Languages:**

Strong proficiency in Flutter/Dart and additional expertise in JavaScript and TypeScript for multi-platform development.

**Startup and Product Development:**

Proven ability to contribute to architectural decisions and product lifecycle management in startup environments. Experienced in delivering products from ideation to deployment.

**Onchain and DeFi Expertise:**

Active participant in decentralized finance (DeFi) platforms and on-chain trading, with experience integrating real-time blockchain data into application development.

**Professional Experience****ICEA LION Group, Nairobi, Kenya*****Senior Fullstack Engineer - Mobile & Backend*****June 2022 - Present**

- Mobile Application Development: Developed robust mobile application to allow users invest and insure, using Flutter with seamless integration with backend services, via APIs significantly improving mobile user engagement.
- Significantly Improved Git versioning processes from hotfixes, dev and release branches, introducing branch guidelines, code documentations, release notes.
- Introduced dynamic whitelisting and blacklisting of features on published applications as per business timelines, to avoid use and misuse of features before approvals.
- Set up CI/CD pipelines for automated deployments to iOS and android appstore & playstore respectively using Azure Pipelines and Firebase App Distributions.
- Wrote Unit and Intergration tests using Mockito which reduced the number of bugs in the application.
- Migrated native Java application into cross-platform

- Engineered and led a team to develop high-performance microservices, reducing system latency by over 40%.
- Facilitated legacy code migration to microservices, bolstering system reliability and scalability.
- Authored and optimized REST APIs to enhance front-end connectivity and external integrations, using Node.js and TypeScript.
- Devised CI/CD strategies that cut down code deployment cycles by 30%, integrating testing and deployment processes within Azure DevOps.

**Quodari, Utrecht, Netherlands**

***Mobile & Backend Engineer***

**February 2021 - June 2022**

- Developed legacy Quodari application using Flutter, following UI/UX flow.
- Integrated third party APIs using MVVM architecture to ensure scalability,
- Set up CI/CD Processed with CircleCI & Github actions to ensure faster developemt to release cycles.
- Worked together with Project teams to develop User Acceptance Testing Criteria which helped set framework for automated Unit tests.
- Introduced new ideas on simplifying user experience on the mobile app, as opposed to what the company ways.
- Mentored two other junior engineers who joined the company by guiding them through setting up DevOps proceses

**Damusasa, Nairobi, Kenya**

***Software Engineer***

**July 2019 - January 2021**

- Spearheaded development of first android using Kotlin, later on developed using Flutter to ease publication to both iOS and android.
- Integrated with third party applications i.e CRM tools, Ambulance services & payments to allow efficient delivery of emergency services to customers.
- Set up BLOC architecture, and Cubit to allow efficient app performance on different app states.
- Integrated Firebase Functions and Firebase Cloud Messaging to ensure easier management deployment of APIs, and also push notifications.
- As the company was a startup, I also led the development of cloud-based backend solutions, significantly improving operational efficiencies at scale.
- Crafted and maintained robust APIs using Node.js and Express, substantially boosting data flow and system integration.
- Provided mentorship to develop technical skills within the team, focusing on agile practices and continuous integration.

## **Education & Professional Development**

### **Kenyatta University**

- BSc, Computer Science

### **Continuous Learning**

- Specialization in Software Engineering (Data Structures, Web Data Management, Algorithms) -University of Michigan- Certification
- Certified in Machine Learning and AI by Deeplearning.ai
- Certified in Dart & Flutter by Udemy

## **Projects & Impact**

- EuroSavannah: Developed a platform to facilitate software skill exchanges between Africa and Europe.
- Scanpal & RenalCare: Led the creation and deployment of mobile apps that serve significant social and health purposes, available on Google Play.

## **Professional Affiliations**

- Google Developer Groups Nairobi