Clinton Sang
Senior Software Engineer
Email: clintonksang@gmail.com
Mobile: +254716813714

Core Competencies

● **Mobile Development**: Proficient in cross-platform mobile applications with React Native and Flutter, as well as native development with Swift for iOS and Kotlin for Android. Skilled in integrating mobile apps with cloud-based and microservice architectures. Over 3 years of experience in mobile engineering, including building production apps with real-time data and advanced State Management using tools such as Redux, Provider, Riverpod, or BLoC for optimal app performance and maintainability. Familiar with designing intuitive, user-friendly interfaces and animations.

● **Scalable and Highly Transactional Web Applications**: Over 5 years of experience in developing scalable and highly transactional web applications as a Full Stack Developer. Expertise in building secure, performance-driven, and scalable web platforms.

● **.NET Core Development**: Proficient in developing robust and scalable applications using .NET Core, with hands-on experience in enterprise-level projects.

● **Front-End Development**: Extensive experience with multiple front-end languages and libraries, including HTML, CSS, Angular, JavaScript, XML, and jQuery. Skilled in creating responsive designs and ensuring cross-browser compatibility for a seamless user experience.

● **Back-End Development**: Advanced knowledge of multiple back-end languages, including C# and Python, and expertise in JavaScript frameworks such as Angular, React, and Node.js.

● **Database Management**: Proficient in MS SQL Server, ensuring efficient data storage, retrieval, and optimization for high-performance applications.

● **Cloud-Based Architecture**: Extensive experience with Azure, AWS, and GCP, including Azure DevOps, Azure App Service, and Azure API Management. Skilled in SaaS multi-tenant cloud application development with Azure. Proficient in Docker and Kubernetes for orchestration and deployment.

● **Microservices Development**: Designed and implemented scalable microservices; led migration from monolithic to microservices architecture.

● **API Development and Integration**: Expert in RESTful API development and proficient in GraphQL integration; enhanced system functionality across multiple platforms.

● **Responsive Design and Compatibility**: Skilled in creating responsive web designs and ensuring cross-browser compatibility for seamless performance.

● **Startup and Product Development Experience**: Proven ability to contribute to architecture decisions, product direction, and lifecycle management, with a strong background in startups and delivering products from ideation to deployment.

● **Educational Background**: Degree in Computer Science, Statistics, or a relevant field, providing a strong foundation in theoretical and practical computing concepts.

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 missuse 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 easen 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