



# Samuel Wakoli

## Full Stack Developer (Backend Heavy)

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## PROFILE

Senior software developer with over five years of specialized experience in mobile application development, proficient in Flutter and native Android development using Kotlin as my primary programming language, complemented by expertise in Dart and JavaScript. My technical stack encompasses Agent Development Kit for AI agents, Jetpack Compose for Android front-end development and Flutter for cross-platform solutions, while leveraging Firebase and Google Cloud Platform for robust back-end infrastructure. I bring a persistent and logical approach to problem-solving, coupled with a commitment to continuous learning and adopting emerging technologies, with the career objective of advancing my expertise while delivering meaningful impact within a dynamic development environment.

## TECHNICAL SKILLS

- Languages: **Kotlin, Dart, JavaScript, TypeScript**
- Mobile Development: **Android Kotlin, Flutter SDK, Kotlin MultiPlatform, Material Design**
- Backend Development: **Node.js, Google Cloud Platform**
- Version Control: **Git**
- Command Line & Terminal Skills: **Bash, PowerShell**
- Cloud Services: **Firebase, Google Cloud Platform**
- AI: **Genkit, Agent Development Kit, Firebase AI Logic**
- Project Documentation: **Writerside IDE (XML & Markdown)**

## EXPERIENCE

## **Xandria Learn, Applewood Adams Ngong Road, Nairobi**

Full Stack Software Developer

Remote

June 2025—Present

- **AI Integration:** Implemented AI workflows using GenKi and Firebase AI logic.
- **Payment Gateway:** Integrated Paystack for secure payment collection.
- **UI/UX Implementation:** Built UI using Material Design 3.
- **Technical Leadership:** Led architecture planning sessions.
- **API Development:** Designed and implemented RESTful APIs using Node.js and Firebase Cloud Functions to support web client applications.

## **Arkcess Care, Perris, California, United States**

Full Stack Software Developer

Remote - Full-time

January 2024—Present

- **Cross-Platform Development:** Engineered responsive Flutter applications with unified codebases for web platforms.
- **Firebase Integration:** Implemented comprehensive backend solutions using Firebase services including Authentication, Firestore, and Cloud Functions to create scalable and secure applications.
- **AI Integration:** Leveraged Google's Gemini AI developer API, implementing server-side AI services with Node.js, including resume summary generation. Developed "Ajira," a suite of intelligent Agents equipped with tools designed to streamline user onboarding and enhance overall platform process efficiency.
- **Payment Gateway:** Integrated Stripe financial services such as invoicing, subscription and one-time checkout. Ensuring secure payment in our web app.
- **UI/UX Implementation:** Translated wireframes and design mockups into user interfaces using Flutter's widget system.
- **Technical Leadership:** Led architecture planning sessions and provided guidance to fellow developers on Flutter best practices and state management approaches.
- **API Development:** Designed and implemented RESTful APIs using Node.js and Firebase Cloud Functions to support web client applications.
- **Performance Optimization:** Conducted code reviews and performance profiling to identify and resolve bottlenecks, improving application load and streaming time.
- **User Support Systems:** Created in-app feedback mechanisms and analytics integrations to gather user insights and prioritize feature development.
- **CI/CD Pipeline Management:** Established automated testing and deployment workflows to ensure consistent quality across all application releases.

## **AnchorMiles, Garden Estate, Thika Road, NRB**

Native Android Developer (Seasonal)

January 2023—Present

- **Native Android Development:** Built feature-rich Android applications using Kotlin and

Jetpack Compose, following Material Design principles and MVVM architecture.

- **Real-time Data Synchronization:** Integrated Firebase Realtime Database and Firestore for seamless offline-first experiences with conflict resolution.
- **Compose UI Implementation:** Leveraged Jetpack Compose to create modern, declarative user interfaces with custom theming.
- **Authentication Systems:** Implemented secure multi-factor authentication flows using Firebase Authentication and custom token management.
- **Background Processing:** Developed efficient background services for data synchronization and push notification handling using WorkManager.
- **Code Migration:** Successfully migrated legacy XML-based layouts to Jetpack Compose, improving development velocity and code maintainability.
- **Analytics Integration:** Implemented comprehensive user analytics using Firebase Analytics to track engagement metrics and feature adoption.

## EDUCATION

### Diploma in Information Technology

#### KCA University | Ruaraka, Nairobi

September 2021—December 2023

Relevant Units:

- Computer organization and architecture
- Programming methodology
- Data structures and algorithms
- Java Programming
- Application programming

## CERTIFICATIONS

- **Android Development** by Google Africa Developer Training Program: [certificate](#)

I have an Android Development certification from Google's training program. I have in-depth knowledge and skills, enabling me to contribute to Android projects efficiently.

- **Kotlin** by Sololearn: [certificate](#)
- **SQL** by Sololearn: [certificate](#)
- **HTML** by Sololearn: [certificate](#)

## AWARDS

### Google Students Solution Challenge

Global Top 100 | 2023: [certificate](#)

I'm honored to be a Top 100 Global Finalist in the esteemed Google Student Solution Challenge. This award recognizes my innovative mindset and exceptional problem-solving skills, as I've contributed to creating a solution that addresses pertinent real-world challenges.