





Peter Ziwa David


Senior Mobile & Full-Stack Developer

 Based in East Africa

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Professional Summary

Experienced Senior Mobile & Full-Stack Developer with 12+ years of expertise in architecting high-performance mobile, desktop, and AI-powered solutions across 9 African markets. Specializing in Fintech, E-Commerce, AI/ML integration, and scalable Cloud Architecture. Proven track record of delivering enterprise-grade applications with 200+ successful deployments, serving thousands of users across diverse platforms.

Core Expertise

Mobile Development

- iOS (Swift/SwiftUI)
- Android (Kotlin)
- React Native
- Flutter
- Jetpack Compose

Backend & Cloud

- Node.js
- Python
- Go
- AWS
- Kubernetes

AI & Machine Learning

- TensorFlow
- CoreML
- BERT
- NLP
- Computer Vision

Desktop Development

- Electron
- PyQt5
- C# WPF
- .NET

Payment Integration

- M-Pesa
- Airtel Money
- Stripe
- QuickBooks SDK

Other Technologies

- TypeScript
- GraphQL
- WebRTC
- PostgreSQL
- MongoDB

Professional Experience

Senior Mobile & Full-Stack Developer

2013 - Present

Freelance / Contract

- Architected and developed 200+ mobile and desktop applications deployed across 9 African markets
- Built enterprise POS systems serving 200+ retail locations with real-time inventory sync and multi-payment gateway integration
- Developed AI-powered solutions including sentiment analysis, computer vision, and recommendation systems with 92%+ accuracy
- Created cross-platform mobile applications supporting iOS, Android, and web with shared codebases
- Integrated payment systems (M-Pesa, Airtel Money, Stripe) handling millions in transaction volume
- Designed and implemented scalable cloud architectures on AWS with Kubernetes orchestration
- Collaborated with industry leaders (CrowdFlower, BasicAI, Samasource) on AI training data infrastructure

AI & Advanced Commerce Developer

2024 - Present

Various Clients

- Leading development of AI-driven shopping experiences with AR try-on and voice commerce features
- Implemented real-time sentiment analysis systems processing customer reviews across multiple languages
- Built recommendation engines increasing average order value by 35% through intelligent cross-selling
- Developed computer vision models for product classification with 94% precision

Live Commerce & E-Commerce Specialist

2022 - 2023

Various Clients

- Architected real-time video shopping platforms with WebRTC for sub-second latency streaming
- Built multi-market e-commerce platforms supporting 9 African markets with localized payments
- Developed offline-first mobile applications for retail staff in low-connectivity areas
- Created edge-based product recognition systems identifying 500+ SKUs without internet

Enterprise Solutions Developer

2018 - 2021

Various Clients

- Built enterprise Point of Sale systems deployed across 200+ retail locations
- Migrated monolithic applications to microservices architecture for improved scalability
- Developed demand forecasting engines analyzing transaction patterns with 85% accuracy
- Created automated QuickBooks synchronization for accounting workflows

Key Projects

Enterprise POS System

React Native, TypeScript, QuickBooks SDK

- Cross-platform POS deployed across 200+ retail locations with real-time inventory sync
- Integrated M-Pesa, Airtel Money, and Stripe payment gateways
- Achieved 99.9% uptime with automated QuickBooks accounting synchronization

Offline-First Retail Assistant

Android, Kotlin, TensorFlow Lite

- Edge-based product recognition app identifying 500+ SKUs without internet
- Optimized for budget Android devices, reducing inventory lookup time by 80%
- Achieved 98% accuracy with offline-first architecture

Real-Time Sentiment Analysis System

NLP, BERT, Python

- Advanced sentiment analysis processing customer reviews and social media in real-time
- Classifies emotions with 92% accuracy across English, Swahili, and local dialects
- Powers customer experience insights for e-commerce platforms

Multi-Market E-Commerce Platform

Flutter, Dart, Firebase

- Unified shopping experience supporting 9 African markets
- Localized payment methods, currencies, and 15+ languages
- AI-powered product recommendations and real-time chat support

Regional Expertise

Delivered localized technological solutions across 9 African markets: Kenya, Tanzania, Uganda, Rwanda, Nigeria, Mozambique, South Africa, Zambia, and Malawi. Deep understanding of local payment infrastructures, user behaviors, and market-specific requirements.

Education & Certifications

Software Development & Engineering

Self-Taught / Continuous Learning (2013 - Present)

AI Training Data Infrastructure

Collaborations with CrowdFlower, BasicAI, Samasource

Key Achievements

- 12+ years of professional development experience
- 200+ successful application deployments
- 9 markets served across Africa
- Built applications serving thousands of active users
- Expertise in 15+ programming languages and frameworks

- Proven track record in Fintech, E-Commerce, and AI/ML integration