

Martin Wainaina

Mobile App Developer and Data Scientist

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SUMMARY

I am a versatile Software Developer and Data Scientist with a passion for creating seamless user experiences across digital platforms. Skilled in modern tools such as SwiftUI, Flutter and Kotlin for mobile app development, and frameworks like Django and Laravel for backend development and Python for Data Science. I blend technical precision with creative problem-solving. Whether building intuitive apps or developing reliable services, I focus on delivering solutions that are powerful, user-friendly, and impactful.

TECHNICAL SKILLS

- **iOS / macOS:** Swift, SwiftUI, UIKit, KingFisher, Swift Package Manager, API Integration(URLSession, Combine, async/await), RocketSim, AppStorage, UserDefaults, CoreData, SwiftData, TestFlight, Keychain, Combine, Core Animation, XCTest and Swift Testing framework.
- **Android:** Kotlin, Java, Jetpack Compose, Dependency Injection (Dagger Hilt), API Integration(Ktor, Retrofit), JUnit, XML, Local storage and offline caching(Room, SQLite, Shared Preference, DataStore), Maven/Gradle, Workflows, Material3 Design, Coroutines.
- **Cross-platform (Android + iOS):** Flutter (GetX, BLoC + Cubit, Provider), Shared Preference, Cocoapods
- **Developer Tools:** Android Studio, VS Code, Xcode, Postman, XAMP, PyCharm, SQLDeveloper, WorkBench, PgAdmin
- **Backend:** Laravel REST Framework, Django REST Framework (Python)
- **Architecture & Design Patterns:** MVC, MVVM, Clean Architecture, S.O.L.I.D Principles, App modularization.
- **Databases:** Relational (OracleSQL, MySQL, PostgreSQL), Non-Relational (Firebase, MongoDB)
- **Firebase:** Firestore, real time, storage, Firebase Cloud Messaging (FCM), Crashlytics, Analytics, Remote Config, App Distribution, Authentication (Google, Apple, Facebook, Email / Password)
- **Security:** KeyChain, Encryption (RSA, AES), SSL Pinning, FaceID, TouchID, Trustkit, AWS Liveliness Check
- **Testing:** Unit Testing, Integration Testing, System Testing, Automated tests
- **CI / CD:** GitHub Actions, CI/CD pipelines, Fastlane and automation tools, AppStore Connect, Play Store.
- **Version Control:** Git, GitHub, Bitbucket
- **Web:** Laravel
- **Data Science:** Python (NumPy, Pandas, Matplotlib, Seaborn), R language, R-Studio, SQL, Airflow, NiFi, Oracle Data Intergrator (ODI), Oracle Analytics Server (OAS), Procedual SQL (PSQL).

EXPERIENCE

Mobile App Developer

May 2024 – To Date

Co-opertave Bank (via Symphony Technologies) - banking solutions.

Nairobi, Kenya

- Developed and maintained secure banking applications.
- Implemented mobile apps(Android and iOS) using SwiftUI and Kotlin, improving performance by 30% and a rating of 4.8 stars
- Diagnosed and resolved bugs, ensuring seamless functionality across platforms.
- Enabled the integration with backend services through REST APIs and mobile SDKs
- Collaborated with front-end team, back-end team, product analyst team, QA team, UI/UX team to deliver scalable solutions.
- Apps that I participated in building are; Co-op Bank App and YEA! Co-op Bank
- Writing code that is scalable, clean, maintainable, high quality, security patterns, and easy to read using architectural patterns supported with documentation.
- Deploying iOS applications to App Store Connect through Testflight
- Features that I worked on End-To-End include; laying down entire applications foundation, Log in, Registration, Biometrics Authentication, M-Pin, AWS Liveliness authentication, Bank to Mpesa Transafer, Bank to other Account Transfer, Cash withdrawal, Mpesa Float, Airtime, Co-op Remit, Co-op Duka, KPLC Tokens, Zuku Tv,

Zuku Fibre, DSTV, GoTv, Nairobi Water, StarTimes, KRA Bill payment, School Fees, Rent Payment, More Payment, Co-op Kwa Jirani Float Purchase, Moneygram transfer, Favourites Management, Beneficiaries Management, QR scanning, Optical Character Recognition (OCR), Notifications List and In-App Push Notifications, Inboxes, App Themes

- Performed data scientist related duties, including; collecting data from different sources (such as DBs, Excels, APIs), cleaning and processing data by handling missing values, and formatting (using Numpy and Pandas), analyzing data to identify patterns, trends, and anomalies using statistical and visualization tools such Matplotlib, Seaborn

CERTIFICATIONS

Mastering SwiftUI Architecture: Patterns and Best Practices

April 2025

Udemy : [Certificate Link](#)

Gained a deep understanding of SwiftUI architecture, including identifying limitations of MVVM and transitioning to a simpler MV pattern. Learned to manage state using aggregate models and stores, build reusable and modular views, implement scalable validation patterns, and handle complex navigation flows. Also covered writing unit and UI tests for SwiftUI applications and integrating UIKit components within SwiftUI projects.

The Swift Arcade Professional iOS Development Course - UIKit

October 2025

Udemy : [Certificate Link](#)

Gained indepth knowledge of building professional iOS apps programmatically with UIKit, applying core software engineering practices: unit testing, refactoring, writing clean readable code, understanding and working within an Agile-type development environment (at a high level) as part of iOS development.

PERSONAL PROJECTS

PROJECT-ATLAS | *Python (Django, Pandas, Numpy,), MySQL DB, Git*

Sep 2025 – To date

- PROJECT-ATLAS is a data science project that helps in data acquisition, standardization, modeling and visualization to provide meaningful insights about weather, health, climate change and food security.
- Github Link <https://github.com/martin-ngigi/PROJECT-ATLAS>

Style Yangu | *Swift (SwiftUI), Laravel Rest Framework, MySQL DB, Git*

March 2024 – May 2024

- Style Yangu is an iOS e-commerce app developed in SwiftUI , MVVM Clean architecture. S.O.L.I.D. Principles
- iOS App Store Store Link <https://apps.apple.com/ke/app/style-yangu/id6479963901>

Safiri Tours | *Flutter (BLoC + Cubit), Laravel Rest API , MySQL DB, Git*

January 2024 – March 2024

- Safiri Tours is a mobile application (android and ios) that helps tourist explore travelling destinations, book destinations, pay booking fee via Mpesa | Paypal | Stripe. Has an admin panel for monitoring purposes.
- iOS App Store Link <https://apps.apple.com/ke/app/safiri-tours/id6477752864>
- Android Playstore Store Link <https://play.google.com/store/apps/details?id=com.safiribytes.safiritours>
- Link to admin Panel: <https://safiritours-admin.safiribytes.com/>

EDUCATION

University of East London (UEL) – United Kingdom

Master of Science in Data Science

- Focused on advanced analytics, machine learning, and artificial intelligence, with applications in health, climate change, and social systems.
- Developed strong expertise in handling large datasets, statistical modeling, and data visualization for real-world problem solving.

The Technical University of Kenya (TUK) – Kenya

Bachelor of Technology in Computer Technology (First Class Honors)

- Specialized in Software Development, covering iOS and Android mobile development, backend systems, and full-stack applications.
- Built secure, scalable, and user-friendly applications with practical applications in finance, agriculture, and health.

REFEREE

Ms. Brandy Odhiambo

Co-operative Bank

Supervisor

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