

BIRUK TSEGAYE

SENIOR MOBILE DEVELOPER

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CAREER SUMMARY

Senior Mobile Developer with 5+ years in Android and cross-platform development, specializing in fintech solutions. Skilled in Flutter, React Native, and native Android (Java/Kotlin), with a strong focus on secure, high-performance applications. Proven leader in agile environments, guiding teams through complex projects and collaborating with QA and design for quality outcomes. Experienced in API integration, cloud services, and CI/CD. Recognized with awards from NASA and IBM certifications, showcasing a dedication to excellence and innovation.

PROFESSIONAL EXPERIENCE

FINBIT – Netherlands

2021 – PRESENT

Senior Mobile Developer– Full time (Remote)

- Build and scaled the Finbit Inventory app using Flutter 3.0, Dart, and Firebase, helping businesses cut inventory errors by 45% through real-time stock tracking and multi-device sync.
- Solve slow load times on complex screens by implementing Riverpod for efficient state management, improving app speed and responsiveness.
- Integrate Firebase Auth, Twilio, and Google SDKs to streamline user login, send low-stock alerts, and improve communication.
- Reduce crash rates by 40% through proactive monitoring with Firebase Crashlytics and test automation using Mockito and Flutter Driver.
- Set up CI/CD pipelines with Fastlane and GitLab, automating deployments to Google Play and App Store and cutting release time by over 50%.
- Work closely with backend teams to connect the app to REST APIs and manage data across MySQL and Firestore.
- Deliver features on time in a Scrum environment, collaborating with designers and QA to ensure smooth releases and consistent performance.

FINBIT – Netherlands

2020 – 2021

Frontend Engineer– Full time (Remote)

- Played a key role in the development of Finbit's web portal using React and JavaScript, ensuring seamless integration with back-end systems and third party APIs for efficient data management and processing.
<https://portal.finbit.co/>
- Designed and implemented responsive UI components based on Figma design mockups, improving user satisfaction ratings from 3.7 to 4.5.
- Redesigned the website's typography and spacing using Tailwind CSS, implementing better contrast, accessible font sizes, and structured content hierarchy.
- Built a reusable component library using Material-UI and Storybook, standardizing buttons, modals, and form elements across Finbit's web and mobile platforms. This reduced development inconsistencies and cut UI bug reports by 50%.
- Collaborated directly with clients to define project goals and user requirements, developing an MVP that addressed critical pain points, such as streamlining the onboarding process and improving user retention.

LIFT-BV – Netherlands

2018 – 2020

Android Developer – Full time (Remote)

- Built 7 custom Android apps for various clients using Java, Kotlin, and Android Studio, collectively reaching 10,000+ users; managed deployment and post-launch maintenance to ensure smooth updates and app stability.
- Developed Concept Ethiopia using Java, featuring a nutritional database, BMI calculator, and a clean Android UI to promote healthier eating habits in rural communities.
- Used Kotlin Coroutines to streamline network and database operations in a survey app, eliminating UI freezing issues on low-end devices and improving overall responsiveness.
- Built a user-friendly survey feature using Jetpack Compose and Room with offline support, increasing data collection completion rates by 85% in remote areas with unstable internet.
- Adopted Clean Architecture in a field data collection app, separating concerns across UI, domain, and data layers to enable scalable development and modular testing.
- Integrated Dagger2 for dependency injection to decouple service layers in a logistics tracking app, making the codebase more testable and maintainable.
- Collaborated with backend teams to integrate RESTful APIs using Retrofit2 and OkHttp3, ensuring efficient and secure data communication across all apps.
- Improved release quality by implementing Espresso UI tests and adopting TDD practices, reducing post-launch issues by 40%.
- Presented bi-weekly development updates using Jira and Confluence, aligning deliverables with client expectations and adjusting priorities based on feedback.

Securicom Advanced Technologies – Ethiopia

2017 – 2018

Junior Software Developer – Internship

- I Developed "Addis Coupon", Ethiopia's first digital coupon mobile app using Java and Android SDK, connecting users with discounts from 15+ major supermarkets.
- Created the QR code scanning and validation system using ZXing library that processed 1,000+ daily coupon redemptions.
- Built Tele Customer Service Chatbot for Ethio Telecom with Dialogflow and MySQL database with both Amharic and English language support, handling customer inquiries 24/7.
- Trained the custom Amharic speech recognition model using Python, TensorFlow, and Librosa, fine-tuning it with noise-reduction techniques. This improved voice command accuracy from 85% to 92%, making the chatbot more effective in real-world scenarios.
- Designed and developed responsive WordPress websites for diverse clients, including ethiomandriltour.com, afriqueinsight.com, bymystery.com, ramos-plc.com, and securicomtech.com, ensuring optimized performance, SEO integration, and mobile compatibility.
- Developed an Android-based Bluetooth printing solution using Android Bluetooth API and ESCPOS library for small businesses, enabling receipt printing from mobile devices.
- Participated in all phases of the software development lifecycle using Trello for project management, from requirements gathering to deployment and maintenance.

EDUCATION

ADDIS ABABA UNIVERSITY

Bachelor of Software Engineering

2018-2023

CERTIFICATIONS & AWARDS

- Award for winning in the **NASA Space Apps Challenge** Addis Ababa Hackathon on the 21st of October, 2018
- **Samsung technical training certificate** for the successful completion of RF module, AV module, IT module, RAC module held on 28th April, 2017
- Certificate of **appreciation from the US embassy** for the commitment to train students in the "Girls Can Code and Beyond" 28th July, 2018.
- Certificate of **completion of DiSEKTEA-Android Mobile App Development** 15th January 2016.
- **Mobile Application Developer** - Mastery Award for Students, IBM March 2016.
- Python 3 course: The Complete Guide, Udemy
- Figma Essential Training: The Basics, LinkedIn

TECHSTACK

- **Programming Languages:** Java, Dart, Javascript, Kotlin, HTML, Python, Swift, PHP, Typescript
- **API Integration:** Restful, GraphQL
- **Mobile Development Frameworks:** Android, Flutter, React Native,
- **Cloud Services:** Firebase
- **Version Control Systems:** Git, Github, Gitlab Bitbucket, CI/CD
- **UI/UX Design:** Sketch, Adobe Design, Adobe Photoshop
- **Web Development Frameworks:** ReactJS, JQuery, Bootstrap, Node.js
- **Database Management:** MySQL, SQL, MongoDB, PostgreSQL
- **Testing Proficiency:** JUnit, Espresso, Mockito, Widget Tester
- Scrum Mastery and Agile Methodologies
- Critical And Analytical Thinking Skills
- Organizational Skills
- Creativity and Innovation
- Analytical Skills
- Strong Teamwork Player
- Excellent Written And Verbal Communication Skills

LANGUAGE(S)

- English (C1)
- German (B1)

PROJECTS

Finbit Inventory App

Associated with: FINBIT®

Project Description:

Finbit Inventory is a cross-platform mobile application designed for inventory management, enabling businesses to track stock levels, manage orders, and streamline operations. The app is built with a focus on efficiency, automation, and real-time tracking for seamless inventory control.

Key Features & Impact:

Real-time inventory tracking with automated stock updates.

Multi-platform compatibility (iOS & Android) using Flutter.

Secure authentication & data synchronization with cloud services.

Intuitive UI/UX for business owners to manage inventory effortlessly.

Technologies Used:

- Flutter (for cross-platform development)
- Dart (programming language for Flutter)
- Android Studio (for development & debugging)
- iOS & Android Development

Concept Ethiopia App

Independent Project

Project Description:

Concept Ethiopia is a health and nutrition-focused Android application that educates users about traditional Habesha meals, their ingredients, and their health benefits. It also includes a Body Mass Index (BMI) calculator to help users monitor their health.

Key Features & Impact:

Comprehensive database of Ethiopian meals & their nutritional value.
Integrated BMI calculator to assess user health status.
Simple, user-friendly interface designed for easy access to health information.

Technologies Used:

- Java (for Android development)
- Android Studio (IDE for development & debugging)

Tele Customer Service Chatbot

Associated with: Addis Ababa University

Project Description:

A customer service chatbot developed for Ethio Telecom, designed to answer frequently asked questions and assist customers in Amharic and English via voice and text interactions. The chatbot includes Amharic voice recognition and natural language processing (NLP) capabilities.

Key Features & Impact:

AI-powered chatbot for real-time customer support.
Amharic & English language support, increasing accessibility.
Voice recognition & transcription, enhancing usability.

Technologies Used:

- MySQL (for customer data storage)
- Android Studio (for mobile app development)
- Programming & AI integration

Addis Coupon - (<https://m.apkpure.com/addis-coupon/com.securi.addiscpn>)

Associated with: Securicom Advanced Technologies

Project Description:

Addis Coupon is Ethiopia's first digital coupon system, designed to help users save money through promotional discounts from multiple supermarkets. It enables real-time coupon redemption, providing a seamless shopping experience.

Key Features & Impact:

Integrated with multiple supermarkets, making coupon redemption easy.
Secure digital coupon system, reducing paper waste.
User-friendly mobile interface, improving accessibility.

Technologies Used:

- Java (for Android development)
- Android Studio (for development & debugging)
- Web Development (for integration with supermarket systems)

Tenant Management System

Independent Project

Project Description:

A web-based inventory and tenant management system designed to track property rentals, sales, deliveries, and orders. This system ensures seamless property management for real estate professionals and landlords.

Key Features & Impact:

Automated stock & rental tracking across multiple locations.
Real-time notifications for low inventory and lease renewals.
Detailed reporting & analytics for business insights.

Technologies Used:

- MySQL (for database management)
- Web Development (for the online platform)
- Programming (for business logic implementation)