

Terrel Lewis

Product Engineer looking to build effective and delightful consumer products at scale
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PROFESSIONAL SUMMARY

Mobile Engineer with over 8 years of experience working in product companies to develop user-centric mobile applications on Android. Experienced in both architecting greenfield applications from the ground up and collaborating on complex, multi-module projects within large development teams. Throughout my career, I have always strived to be an empath first and an engineer second.

WORK EXPERIENCE

Android Engineer, Deliveroo

Nov 2023 – Present

- Led the re-architecture of the order picking app to support fulfillment of grocery orders from partner sites having a catalogue size of 30K+ SKUs
- Led the development of a feature to reduce auto-rejection rates of orders, a key performance indicator for the organization.
- Contributed to refactoring a core feature module to integrate Clean Architecture and transition views from XML to Compose.
- Incorporated mTLS in the app to increase security when communicating with backend systems.
- Drove operational excellence initiatives, including elevating crash-free rate from 85% to over 95%.
- Took the initiative to increase product awareness across different verticals within the organization.
- Conducted technical interviews to expand the team.

Product Engineer, Airblack

May 2021 – Mar 2023

- Built [Airblack](#) app using MVVM architecture pattern, coroutines, and implemented DI using Hilt
- Built a dynamic UI rendering framework that supports a vast array of customizable and reusable UI elements
- Integrated live chat capabilities using Sendbird SDK
- Implemented app theming to be able to launch new clubs with different color themes quickly
- Oversaw multiple features in the app such as the Showcase Feed which improved online class participation by 20%
- Implemented complex recycler views which included pinning elements based on position and nested quick scrolls
- Setup Fastlane for release management and consistently maintained a crash-free rate of over 99.5%
- Improved image-loading experience by adding a shimmer effect across components and caching/pre-fetching high-frequency images
- Set up metrics dashboards for various product features on Amplitude and Metabase
- Set up a WordPress blog and managed content creation.

Full Stack Mobile Engineer, Synapse Inc

May 2016 – Feb 2021

Android:

- Built a prototype app to aid our selection into the Startup Lab program at Duke University's Behavioral Economics Lab
- Developed the flagship Android product, [Daywise](#) from scratch and scaled it to 200k installs.
- Architected the notifications framework for Daywise which saved users from over 50 million interruptions
- Implemented unit testing for the notifications framework
- Integrated Google Play Billing library to facilitate in-app subscriptions and achieved a conversion rate of 22% from free trial to paid users; 4x better than industry averages
- Setup CI/CD using Bitrise

Backend:

- Built REST APIs using Django REST Framework and setup PostgreSQL to store app-related data on our server
- Setup Python scripts to fetch and process data
- Migrated to a server-less backend infrastructure using Firestore and Cloud Functions from Firebase
- Set up processing of Real Time Developer Notifications from Google Play

Android Developer Intern, Fabfresh

Jan 2016 – Apr 2016

- Implemented live location tracking of rider partners using Google Maps SDK
- Set up real-time updates for customers using GCM
- Built a PoC Android app that served as an interface to communicate with the smart laundry bag fitted with a weight sensor and Bluetooth module. The app was responsible for periodically polling the bag for its weight using BLE.

SKILLS

Programming Languages: Kotlin (Proficient), Java (Proficient), Javascript (Familiar), Python (Familiar), C++ (Familiar)

Technologies: Android, NodeJS, Django, WordPress

Libraries: Retrofit, Hilt, Coroutines+Flow API, Glide, Jetpack Compose, Firebase, JUnit4, RxJava, Room, BLE communication, SocketIO, Branch, Bitrise

Database: SQLite, PostgreSQL, MongoDB, Google Cloud Firestore & BigQuery

Architecture patterns: MVVM (Clean Architecture), MVP

Version Control: Git

SIDE PROJECTS

- [PixabayImages](#): Android app written in Kotlin, uses Jetpack Compose, and follows Clean Architecture principles.
- [SwipeWrite](#): A tool to craft attractive dating bios using GPT. Over 2000 bios generated so far.
- [Weave Threads GPT](#): Google Search for Twitter Threads using vector embeddings and GPT.

AWARDS AND ACCOLADES

- 'Extreme Entrepreneur' awarded at Airblack for leading execution of multiple product features **2022**
- Granted [US patent](#) on new Notifications System **2022**
- Daywise was listed among the ['Best Productivity Apps 2019' by FastCompany](#). **2019**

EDUCATION

Research Scholar, Behavioral Economics, Duke University

Apr 2018

- Architected and built apps to facilitate research on the effect of smartphones on mental wellbeing
- Ran a first of its kind Randomized Control Trial (RCT) on batching push notifications and its effect on mental health and wellbeing
- Co-authored a [paper](#) on batching notifications with Dan Ariely which was published in the 'Computers in Human Behavior' journal and has over 50 citations
- The research was presented at the Technology, Mind & Society conference by the American Psychological Association

Bachelor of Technology, Information Technology, Manipal Institute Of Technology

Apr 2016

- Had competing job offers from Dell R&D and SignEasy, an established startup that has built products used by more than 5 million people
- Received accolades in a Hackathon organized by Microsoft
- Worked on short films that won awards at multiple competitions