

# Terrel Lewis

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

Product Engineer with 7 years of experience working in startups to develop user-centric mobile applications on Android. In addition to that I've worked on other technologies of the stack like NodeJS and Django for backend APIs, Python for data analysis, and serverless functions using Firebase. Throughout my career, I have always strived to be an empath first and an engineer second.

## WORK EXPERIENCE

### 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 incorporating Jetpack Components
- 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

## 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, 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 got 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